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NOVA SCOTIA COAL RESOURCES EVALUATION PROJECT: PROGRESS AND STATUS OF COAL CHEMISTRY FILE JANUARY 1, 1986 TO MARCH 31, 1987

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Cape Breton Coal Research Laboratory

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by

G.W. Bonnell*, L.S. O'Leary**, G.R. Corbett** and D.A. Young**

SUMMARY

Under the Canada - Nova Scotia Development Agreement signed February 17, 1975, Canada, through the Department of Regional Economic Expansion (DREE), contributed to mineral exploration and evaluation in Nova Scotia. The second Canada - Nova Scotia Mineral Development Agreement signed December 1, 1981 called for a continuation of that effort.

Both agreements provided in part for a Coal Resource Inventory and Evaluation in Nova Scotia referred to in this report as the 'program'. The program, for the most part, entailed assessment of coal seams by drilling and drill core analyses by the laboratories of CANMET, Department of Energy, Mines and Resources.

This report presents the analysis results of coal refuse samples and coal channel samples under the inventory program by the CANMET laboratory at Sydney, Nova Scotia, for the period January 1, 1986 to March 31, 1987.

This will be the concluding report of this series as the Canada - Nova Scotia Development Agreement (as it pertains to this program) expired on March 31, 1987.

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PROJET D'ÉVALUATION DES RESSOURCES DE CHARBON DE LA NOUVELLE-ÉCOSSE : RÉCAPITULATION GÉNÉRALE DE L'ÉTAT DU DOSSIER PORTANT SUR LA CHIMIE DU CHARBON DU 1er JANVIER 1986 AU 31 MARS 1987

par

G.W. Bonnell*, L.S. O'Leary**, G.R. Corbett** et D.A. Young**

RÉSUMÉ

Dans le cadre de l'entente sur le développement minéral, ratifiée le 17 février 1975 par le Canada et la Nouvelle-Écosse, le Canada, par l'intermédiaire du Ministère de l'expansion économique régionale (MEER), a contribué à l'exploration et l'évaluation des ressources minérales de la Nouvelle-Écosse. La deuxième entente sur le développement minéral, ratifiée le 1er décembre 1981 par la Canada et la Nouvelle-Écosse, stipule que les activités précitées doivent être poursuivies.

L'inventaire et l'évaluation des ressources de charbon de la Nouvelle-Écosse, désignés dans ce rapport sous le titre de 'programme', ont pu être réalisés en vertu de ces deux ententes sur le développement minéral. La plus grande partie du programme consistait dans l'évaluation des gisements houillers par le forage et l'analyse des carottes de forage par les laboratoires de CANMET, Ministère de l'Énergie, des Mines et des Ressources.

Le rapport comprend les résultats de l'analyse des échantillons provenant de rebuts de charbon et d'une couche de charbon, effectuée dans le cadre du programme d'inventaire, entre le 1er janvier 1986 et le 31 mars 1987, au laboratoire de CANMET, à Sydney, en Nouvelle-Écosse.

Le présent rapport est le dernier de la série - l'entente Canada-Nouvelle-Écosse sur le développement minéral (en vertu de laquelle ce programme a été réalisé), ayant pris fin le 31 mars 1987.

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INTRODUCTION

Under the Canada - Nova Scotia Development Agreement signed February 17, 1975, Canada, through the Department of Regional Economic Expansion (DREE), contributed to mineral exploration and evaluation in Nova Scotia. The second Canada - Nova Scotia Mineral Development Agreement signed December 1, 1981, called for a continuation of that effort.

Both agreements provided in part for a Coal Resource Inventory and Evaluation in Nova Scotia referred to in this report as the 'program'. The program, for the most part, entailed assessment of coal seams by drilling and drill core analyses by the laboratories of CANMET, Department of Energy, Mines and Resources.

Reports dealing with the coal quality evaluation under this cooperative program have been prepared as follows:

1. Report ERP (CF) 75-2 (PRJ) - Summary and Analyses of Seam Composites (a summary of the progress and status to March 31, 1975, of the coal analytical determinations).
2. Report ERP (CF) 75-3 (PRJ) - Sorted Indexes and Coal Analyses (complete analyses of all seam intervals and composites with four index systems for retrieval of coal chemistry data).
3. Report ERP (CF) 76-36 (SP) (TR) - Analyses of all samples analyzed under this project between April 1, 1975 and March 31, 1976.
4. Report ERP/ERL (CF) 77-116 (SP) (TR) - Analyses of all samples from onshore drill sites analyzed under this project between April 1, 1976 and March 31, 1977.
5. Report ERP/ERL 78-32(TR) - Evaluation of coal quality - Part I: Analyses 1974-1977. Analyses of all onshore drill site coal samples analyzed under this project to March 31, 1977.
6. Report ERP/ERL 80-37(TR) - Analyses of all samples from onshore drill sites analyzed under this project between April 1, 1977 and December 31, 1977.
7. Report ERP/ERL 80-57(TR) - Analyses of all samples from onshore drill sites analyzed under this project between January 1, 1978 and December 31, 1978.

8. Report ERP/ERL 80-60(TR) - Analyses of all samples from onshore drill sites analyzed under this project between January 1, 1979 and December 31, 1979.
9. Report ERP/ERL 81-28(TR) - Analysis of all samples from onshore drill sites analyzed under this project between January 1, 1980 and December 31, 1980.
10. Report ERP/CRL 82-01(CF) - Analyses from onshore drill sites analyzed under this project between January 1, 1981 and December 31, 1981.
11. Report ERP/CRL 82-02(CF) - Analyses from onshore drill sites analyzed under this project between January 1, 1982 and December 31, 1982.
12. Report ERP/CRL 84-06(TR) - Analyses from onshore drill sites analyzed under this project between January 1, 1983 and December 31, 1983.
13. Report ERP/CRL 85-13(TR) - Analyses from onshore drill sites analyzed under this project between January 1, 1984 and December 31, 1984.
14. Report ERP/CRL 86-24(TR) - Analyses from onshore sites analyzed under this project between January 1, 1985 to December 31, 1985.

This report presents the analysis results of coal refuse samples and coal channel samples under the inventory program by the CANMET laboratory at Sydney, Nova Scotia, for the period January 1, 1986 to March 31, 1987. Also included is a list of samples prepared for various analyses to be conducted by other laboratories.

Analyses were performed by Shane O'Leary, Gary Corbett, Dave Young, Eric Parsons, Danny Chipman, Ron Dunphy, John MacNeil, Paul Kearney, Danny O'Brien and Gary Bonnell. Data entry was performed by Gary Bonnell with computer data formatting performed by Cameron MacNeil.

For the purpose of reporting seam identification and for data storage manipulation, an Acquisition Number had been assigned to each coal seam intersected in a test hole. The Acquisition Numbers were grouped arbitrarily in series according to coal occurrence areas or districts. These series, according to areas that have been examined under the program from 1975-1987, are shown in Table 1. (However, since this report presents analyses for coal samples that had not been obtained by drilling, Acquisition Numbers were not used in this report.)

Table 2 presents available site information for the samples included in the present Report of Analyses. The coordinate system used for

Table 1 - Acquisition numbers for the various coal districts: 1975 - 1987 (for analytical records)

Albion District	100 - 199
Westville District	200 - 299
Debert District	300 - 399
Kemptown District	400 - 499
Maccan District	500 - 599
Salt Springs District	600 - 699
Styles Brook District	700 - 799
Chimney Corner District	800 - 899
Port Hood District	900 - 999
Springhill District	1000 - 1099
Thorburn District	1100 - 1199
Glace Bay District	1200 - 1299
New Waterford District	1300 - 1399
Port Morien District	1400 - 1499
Joggins-River Hebert District	1500 - 1599
St. Rose District	1600 - 1699
Sydney Mines District	1700 - 1799
Springhill District (cont'd from 1099)	1800 - 1899

Table 2 - Site information, 1986 - 1987

Sample No.	3° MTM ATS77 Projection Coordinates (m) N	E	Elevation (m)
Springhill Refuse Samples - Springhill District			
A1-A2	5,058,524.25	5,533,811.00	-
B1-B2	5,058,717.00	5,533,614.20	-
C1-C2	5,058,859.25	5,533,475.50	-
D1-D2	5,058,968.80	5,533,341.50	-
E1-E2	5,059,023.50	5,533,250.50	-
F1-F2	5,059,100.00	5,533,096.00	-
G1-G2	5,059,166.80	5,532,961.50	-
H1-H2	5,059,281.30	5,532,734.25	-
I1-I2	5,059,356.80	5,532,584.50	-
J1-J2	5,059,424.50	5,532,448.80	-
K1-K2	5,059,459.80	5,532,345.00	-
L1-L2	5,059,485.50	5,532,182.50	-
M1-M2	5,059,513.00	5,531,979.25	-
N1-N2	5,057,622.00	5,534,045.00	-
O1-O2	5,057,422.80	5,534,034.00	-
P1-P2	5,057,253.00	5,533,966.00	-
Q1-Q2	5,057,041.00	5,533,807.00	-
R1-R2	5,056,947.80	5,533,705.80	-
S1-S2	5,056,862.00	5,533,574.00	-

Hole No.	3° MTM NAD27 Projection Coordinates (m) N	E	Seam	Depth Interval (m)	Elevation (m)
Airport Swamp Surface Mine Channel Samples - Glace Bay District					
DDNS-PG-1	5,155,400	419,600	O'Dell	0.00-2.34	31

the 'Springhill Refuse Samples' is the 3° Modified Transverse Mercator ATS77 (MTM) expressed in meters. (Note: Site information for the bulk samples T to BB was not available.) The coordinate system used for the channel samples obtained from the 'Airport Swamp Surface Mine' is the 3° Modified Transverse Mercator NAD27 (MTM) expressed in meters.

Table 3 presents a list of coal samples prepared for special analyses to be conducted by other laboratories.

Table 4 presents the sieve analysis and subsequent sample analysis results for the bulk samples A1 to BB1.

Table 5 presents the weight percentages of samples composited for float-sink analysis.

Table 6 presents the float-sink analysis and subsequent sample analysis results for the composited samples identified in Table 4.

Table 7 presents the bulk densities of the reserve bulk samples A2 to BB2. These densities were calculated by using the weight of the sample in the bucket divided by the volume and is an estimation of the bulk density of the refuse pile(s).

Table 8 presents the sieve analysis and subsequent sample analysis results for the reserve bulk samples A2 to BB2. These samples had been crushed to pass a 1/2" round-holed screen.

Table 9 presents the float-sink analysis and subsequent sample analysis results for the reserve samples A2 to BB2.

Table 10 presents the analysis results of the 'Airport Swamp Surface Mine' channel samples.

Table 11 shows the total number of samples and the analyses conducted under this program during January 1, 1986 to March 31, 1987.

SUMMARY OF PROGRESS AND STATUS OF COAL ANALYSES, 1987

From January 1, 1986 to March 31, 1987, the coal samples originated from the following areas and sites:

Cumberland County

Springhill District	28 sites (total of 868 samples)

Cape Breton County

Glace Bay District	1 site (10 channel samples)

At the Cape Breton Coal Research Laboratory the Springhill Refuse Samples were first air-dried. Sieve analyses were performed on the 28 bulk samples A1 to BB1 (Table 4). Samples were then composited (Table 5) and float-sink analyses were performed (Table 6). Bulk densities were performed on the 'reserve' bulk samples A2 to BB2 (Table 7). After air-drying, sieve analyses were performed (Table 8) and float-sink analyses were done on the 1/2" + 24 mesh portions (Table 9). Samples were crushed and pulverized, and sub-samples prepared to allow the various planned analyses.

Samples identified with an '*' were calculated using results from the sieve analysis and float-sink analysis sub-samples.

Coal channel samples from the 'Airport Swamp Surface Mine' were also crushed and pulverized, and sub-samples prepared to allow the various planned analyses.

This is the concluding report in this series as the Canada - Nova Scotia Development Agreement (as it pertains to this program) expired on March 31, 1987.

A total of 878 samples were analyzed for a total of 5398 data items.

Table 3 - Coal samples prepared for special analyses to be conducted by other laboratories

Laboratory No.	DDNS No.	Approximate Location
PE-11-87	J-86-1	Joggins
PE-12-87	J-86-3	Joggins
PE-13-87	J-86-4	Joggins
PE-14-87	J-86-7	Joggins
PE-15-87	J-86-12	Joggins
PE-16-87	J-86-13	Joggins
PE-17-87	#17	Joggins
PE-18-87	BBMB#18	Joggins
PE-19-87	LRBB#27	Joggins
PE-20-17	MBTR#28	Joggins
PE-21-87	MBTR#36	Joggins
PE-22-87	SC-JC-H	Spicer Cove

Note: 1) Samples PE-11-87 to PE-16-87 were taken from outcrops along the shoreline just north of Joggins and Lower Cove, Cumberland County, N.S.

2) Samples PE-17-87 to PE-21-87 were taken from outcrops along the shoreline just south of Joggins, Cumberland County, N.S.

3) Sample PE-22-87 was taken from an outcrop at Spicer Cove which is approximately 30 miles south of Joggins, Cumberland County, N.S.

Table 4 - Analyses of sieve samples - A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
* PE-41-86	A1 (BULK)		4.92	2.09	75.80	13.43	8.68	0.51	2287 (5.32)	
PE-42-86	+1/2"	49.08		1.75	77.20	12.60	8.45	0.66	2171 (5.05)	
PE-43-86	-1/2" + 1/4"	17.64		2.04	73.33	13.97	10.66	0.42	2696 (6.27)	
PE-44-86	-1/4" + 1/16"	16.47		2.32	77.06	12.81	7.81	0.25	2072 (4.82)	
PE-45-86	-1/16" + 24 mesh	10.59		2.72	75.19	14.97	7.12	0.36	2156 (5.01)	
PE-46-86	-24 mesh + 100 mesh	3.97		3.17	70.54	17.09	9.20	0.56	2718 (6.32)	
PE-47-86	-100 mesh	2.25		3.49	67.45	17.96	11.10	0.67	3028 (7.04)	
* PE-48-86	B1 (BULK)		6.55	2.45	58.33	18.68	20.54	0.78	4999 (11.63)	
* PE-49-86	+1/2"	40.58		1.69	66.29	15.74	16.28	0.92	3825 (8.90)	
PE-50-86	-1/2" + 1/4"	20.14		2.42	57.77	19.91	19.90	0.77	5279 (12.28)	
PE-51-86	-1/4" + 1/16"	19.05		2.69	54.88	19.22	23.21	0.57	5599 (13.02)	
PE-52-86	-1/16" + 24 mesh	11.69		3.40	46.54	22.26	27.80	0.62	6628 (15.42)	
PE-53-86	-24 mesh + 100 mesh	5.00		4.06	44.14	23.06	28.74	0.75	6669 (15.51)	
PE-54-86	-100 mesh	3.54		4.57	47.68	24.60	23.15	0.89	5897 (13.72)	
* PE-55-86	C1 (BULK)		11.38	1.99	62.13	16.26	19.62	0.66	4624 (10.76)	
* PE-56-86	+1/2"	36.40		1.20	74.76	12.20	11.84	0.83	2823 (6.57)	
PE-57-86	-1/2" + 1/4"	20.29		1.83	55.83	17.82	24.52	0.58	5713 (13.29)	
PE-58-86	-1/4" + 1/16"	20.31		2.04	58.02	16.69	23.25	0.49	5258 (12.23)	
PE-59-86	-1/16" + 24 mesh	12.43		2.87	51.79	20.83	24.51	0.58	6036 (14.04)	
PE-60-86	-24 mesh + 100 mesh	5.86		3.46	50.17	20.34	26.03	0.60	6139 (14.28)	
PE-61-86	-100 mesh	4.71		4.38	51.51	21.89	22.22	0.62	5509 (12.81)	

Table 4 (Cont'd) - Analyses of sieve samples - A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
*PE-62-86	D1 (BULK)		8.37	1.78	66.88	13.70	17.64	0.41	3716 (8.64)	
PE-63-86	+1/2"	43.82		1.08	85.62	7.48	5.82	0.15	758 (1.76)	
PE-64-86	-1/2" + 1/4"	16.38		1.63	54.52	17.63	26.22	0.65	5650 (13.14)	
PE-65-86	-1/4" + 1/16"	18.03		2.04	55.15	16.96	25.85	0.51	5697 (13.25)	
PE-66-86	-1/16" + 24 mesh	11.73		2.78	47.32	20.18	29.72	0.62	6819 (15.86)	
PE-67-86	-24 mesh + 100 mesh	5.71		3.17	46.99	21.07	28.77	0.68	6811 (15.84)	
PE-68-86	-100 mesh	4.33		3.90	52.15	20.84	23.11	0.71	5606 (13.04)	
*PE-69-86	E1 (BULK)		8.63	1.92	60.51	15.38	22.19	0.63	4877 (11.34)	
PE-70-86	+1/2"	41.55		1.39	71.18	11.25	16.18	0.76	3117 (7.25)	
PE-71-86	-1/2" + 1/4"	19.60		1.65	53.13	16.80	28.42	0.59	6315 (14.69)	
PE-72-86	-1/4" + 1/16"	17.68		2.11	56.23	16.67	24.99	0.44	5686 (13.23)	
PE-73-86	-1/16" + 24 mesh	10.47		2.47	52.78	19.76	24.99	0.53	6166 (14.34)	
PE-74-86	-24 mesh + 100 mesh	6.30		3.44	46.53	21.40	28.63	0.63	6692 (15.57)	
PE-75-86	-100 mesh	4.40		3.95	48.09	23.87	24.09	0.68	6174 (14.36)	
*PE-76-86	F1 (BULK)		7.84	2.24	50.52	18.91	28.33	0.93	6515 (15.15)	
*PE-77-86	+1/2"	43.60		1.48	62.35	14.42	21.75	1.36	4773 (11.10)	
PE-78-86	-1/2" + 1/4"	20.19		2.24	43.60	19.81	34.35	0.56	7769 (18.07)	
PE-79-86	-1/4" + 1/16"	17.98		2.81	39.93	23.24	34.02	0.57	8032 (18.68)	
PE-80-86	-1/16" + 24 mesh	10.08		3.15	40.88	23.67	32.30	0.63	8001 (18.61)	
PE-81-86	-24 mesh + 100 mesh	4.25		3.71	38.08	26.44	31.77	0.65	7941 (18.47)	
PE-82-86	-100 mesh	3.90		4.26	41.46	23.90	30.38	0.66	7107 (16.53)	

Table 4 (Cont'd) - Analyses of sieve samples - A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
* PE-83-86	G1 (BULK)		8.96	2.45	47.25	19.77	30.53	0.84	6811 (15.84)	
* PE-84-86	+1/2"	32.61		1.51	50.48	17.00	31.01	0.99	6419 (14.93)	
PE-85-86	-1/2" + 1/4"	17.51		2.23	49.89	19.36	28.52	0.63	6622 (15.40)	
PE-86-86	-1/4" + 1/16"	22.31		2.67	45.28	20.83	31.22	0.64	7267 (16.90)	
PE-87-86	-1/16" + 24 mesh	16.08		3.17	43.98	21.66	31.19	0.80	7126 (16.58)	
PE-88-86	-24 mesh + 100 mesh	6.87		3.77	41.10	22.80	32.33	1.03	7273 (16.92)	
PE-89-86	-100 mesh	4.62		4.49	44.52	24.62	26.37	1.34	6299 (14.65)	
* PE-90-86	H1 (BULK)		4.99	2.35	59.39	17.43	20.83	0.52	4857 (11.30)	
PE-91-86	+1/2"	24.80		1.43	67.72	13.71	17.14	0.49	3482 (8.10)	
PE-92-86	-1/2" + 1/4"	20.51		2.08	58.02	19.50	20.40	0.54	5215 (12.13)	
PE-93-86	-1/4" + 1/16"	25.89		2.46	59.66	17.02	20.86	0.42	4875 (11.34)	
PE-94-86	-1/16" + 24 mesh	16.69		2.87	56.48	18.37	22.28	0.50	5411 (12.59)	
PE-95-86	-24 mesh + 100 mesh	7.72		3.49	48.25	20.60	27.66	0.77	6354 (14.78)	
PE-96-86	-100 mesh	4.39		4.16	47.75	22.16	25.93	0.86	6103 (14.20)	
* PE-97-86	I1 (BULK)		6.96	2.46	58.24	17.73	21.57	0.47	5053 (11.75)	
PE-98-86	+1/2"	25.06		1.90	50.03	18.60	29.47	0.71	6415 (14.92)	
PE-99-86	-1/2" + 1/4"	19.96		2.24	58.01	17.25	22.50	0.40	5393 (12.54)	
PE-100-86	-1/4" + 1/16"	23.52		2.49	60.52	17.72	19.27	0.36	4772 (11.10)	
PE-101-86	-1/16" + 24 mesh	20.09		2.82	65.83	16.45	14.90	0.34	3541 (8.24)	
PE-102-86	-24 mesh + 100 mesh	8.55		3.21	58.81	18.48	19.50	0.50	4743 (11.03)	
PE-103-86	-100 mesh	2.82		3.83	57.93	20.57	17.67	0.61	4583 (10.66)	

Table 4 (Cont'd) - Analyses of sieve samples - A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
*PE-104-86	J1 (BULK)		7.88	2.87	44.08	21.01	32.04	1.10	7174 (16.69)	
*PE-105-86	+1/2"	25.00		1.80	48.62	19.11	30.47	2.40	6753 (15.71)	
PE-106-86	-1/2" + 1/4"	20.01		2.67	33.41	22.10	41.82	0.85	9070 (21.10)	
PE-107-86	-1/4" + 1/16"	24.70		2.99	43.79	21.08	32.14	0.56	7397 (17.21)	
PE-108-86	-1/16" + 24 mesh	17.01		3.43	47.87	21.20	27.50	0.54	6093 (14.17)	
PE-109-86	-24 mesh + 100 mesh	8.58		4.07	46.54	22.58	26.81	0.70	6333 (14.73)	
PE-110-86	-100 mesh	4.70		4.56	48.78	22.53	24.13	0.75	5618 (13.07)	
*PE-111-86	K1 (BULK)		6.59	2.65	57.10	17.89	22.36	0.85	5242 (12.19)	
*PE-112-86	+1/2"	30.11		1.73	60.25	16.08	21.94	1.50	4888 (11.37)	
PE-113-86	-1/2" + 1/4"	17.05		2.39	57.82	17.17	22.62	0.52	5474 (12.73)	
PE-114-86	-1/4" + 1/16"	24.04		2.69	55.82	18.87	22.62	0.45	5442 (12.66)	
PE-115-86	-1/16" + 24 mesh	17.37		3.27	57.80	17.75	21.18	0.55	5030 (11.70)	
PE-116-86	-24 mesh + 100 mesh	6.75		3.99	49.53	21.45	25.03	0.84	5884 (13.69)	
PE-117-86	-100 mesh	4.68		5.14	49.09	22.52	23.25	1.11	5504 (12.80)	
*PE-118-86	L1 (BULK)		11.37	2.00	54.54	15.00	28.46	0.68	5574 (12.97)	
PE-119-86	+1/2"	30.06		1.28	63.84	12.60	22.28	0.71	4091 (9.52)	
PE-120-86	-1/2" + 1/4"	20.82		1.84	52.75	14.58	30.83	0.85	5907 (13.74)	
PE-121-86	-1/4" + 1/16"	22.33		2.34	50.61	15.84	31.21	0.57	6346 (14.76)	
PE-122-86	-1/16" + 24 mesh	15.53		2.48	50.36	16.57	30.59	0.56	6205 (14.43)	
PE-123-86	-24 mesh + 100 mesh	3.83		2.82	45.78	17.74	33.66	0.62	6715 (15.62)	
PE-124-86	-100 mesh	7.43		2.95	46.96	18.64	31.45	0.69	6408 (14.90)	

Table 4 (Cont'd) - Analyses of sieve samples - A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
*PE-125-86	M1 (BULK)		6.80	1.74	70.47	13.72	14.07	0.37	2945 (6.85)	
PE-126-86	+1/2"	47.73		1.35	79.28	12.59	6.78	0.33	1528 (3.55)	
PE-127-86	-1/2" + 1/4"	20.60		1.74	71.63	11.83	14.80	0.30	2749 (6.39)	
PE-128-86	-1/4" + 1/16"	17.14		2.00	63.84	14.32	19.84	0.36	4007 (9.32)	
PE-129-86	-1/16" + 24 mesh	9.28		2.60	50.24	18.72	28.44	0.52	6356 (14.78)	
PE-130-86	-24 mesh + 100 mesh	3.00		2.88	41.94	20.94	34.24	0.67	7371 (17.14)	
PE-131-86	-100 mesh	2.16		3.14	44.91	20.04	31.91	0.73	6702 (15.59)	
*PE-132-86	M1 (BULK)		11.33	1.95	64.35	13.65	20.05	0.61	4133 (9.61)	
*PE-133-86	+1/2"	29.78		1.43	60.53	15.76	22.29	1.29	4874 (11.34)	
PE-134-86	-1/2" + 1/4"	14.69		1.75	66.86	11.87	19.52	0.34	3728 (8.67)	
PE-135-86	-1/4" + 1/16"	19.40		2.07	62.01	13.73	22.19	0.36	4478 (10.42)	
PE-136-86	-1/16" + 24 mesh	17.23		2.59	63.79	13.90	19.72	0.34	4156 (9.67)	
PE-137-86	-24 mesh + 100 mesh	8.81		1.86	71.62	10.73	15.79	0.28	3024 (7.03)	
PE-138-86	-100 mesh	10.09		2.53	71.04	12.01	14.42	0.26	2799 (6.51)	
*PE-139-86	O1 (BULK)		10.87	2.18	52.04	15.93	29.85	0.58	6042 (14.05)	
*PE-140-86	+1/2"	21.24		1.16	61.51	13.80	23.53	0.66	4961 (11.54)	
PE-141-86	-1/2" + 1/4"	16.26		2.27	45.75	17.72	34.26	0.70	7349 (17.09)	
PE-142-86	-1/4" + 1/16"	24.96		2.37	47.05	16.06	34.52	0.57	6720 (15.63)	
PE-143-86	-1/16" + 24 mesh	20.07		2.40	51.38	16.00	30.22	0.52	5906 (13.74)	
PE-144-86	-24 mesh + 100 mesh	8.10		2.56	54.44	15.85	27.15	0.45	5458 (12.70)	
PE-145-86	-100 mesh	9.37		3.04	54.13	17.25	25.58	0.50	5212 (12.12)	

Table 4 (Cont'd) - Analyses of sieve samples - A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
*PE-146-86	P1 (BULK)		14.84	1.72	63.81	11.20	23.27	0.36	4537 (10.55)	
*PE-147-86	+1/2"	19.48		0.45	80.18	4.22	15.14	0.32	2337 (5.44)	
PE-148-86	-1/2" + 1/4"	17.44		1.30	60.64	9.09	28.97	0.36	5069 (11.79)	
PE-149-86	-1/4" + 1/16"	22.75		1.72	61.41	12.21	24.66	0.36	5037 (11.72)	
PE-150-86	-1/16" + 24 mesh	18.73		2.24	58.03	14.42	25.31	0.36	5427 (12.62)	
PE-151-86	-24 mesh + 100 mesh	8.74		2.36	59.48	14.33	23.83	0.36	4908 (11.42)	
PE-152-86	-100 mesh	12.86		3.02	58.90	16.03	22.05	0.44	4713 (10.96)	
*PE-153-86	Q1 (BULK)		14.94	1.97	52.56	15.32	30.15	0.46	6269 (14.58)	
*PE-154-86	+1/2"	15.26		0.64	76.60	7.79	15.03	0.39	2748 (6.39)	
PE-155-86	-1/2" + 1/4"	15.03		1.41	56.34	11.49	30.76	0.51	5988 (13.93)	
PE-156-86	-1/4" + 1/16"	23.36		2.03	49.28	15.91	32.78	0.43	6843 (15.92)	
PE-157-86	-1/16" + 24 mesh	20.63		2.31	44.24	18.46	34.99	0.50	7604 (17.69)	
PE-158-86	-24 mesh + 100 mesh	11.32		2.24	47.40	17.93	32.43	0.45	6779 (15.77)	
PE-159-86	-100 mesh	14.40		3.20	44.45	19.78	32.57	0.48	7047 (16.39)	
*PE-160-86	R1 (BULK)		11.07	1.60	51.79	15.01	31.60	0.43	6460 (15.03)	
*PE-161-86	+1/2"	30.02		0.41	77.15	9.17	13.26	0.18	2645 (6.15)	
PE-162-86	-1/2" + 1/4"	17.31		1.82	53.11	12.35	32.72	0.48	6462 (15.03)	
PE-163-86	-1/4" + 1/16"	19.88		1.77	40.05	17.36	40.82	0.50	8381 (19.49)	
PE-164-86	-1/16" + 24 mesh	16.70		2.05	34.87	20.11	42.97	0.56	8970 (20.86)	
PE-165-86	-24 mesh + 100 mesh	7.51		2.61	33.41	20.55	43.43	0.58	9037 (21.02)	
PE-166-86	-100 mesh	8.58		3.14	36.63	20.54	39.69	0.66	8209 (19.09)	

Table 4 (Cont'd) - Analyses of sieve samples - A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
* PE-167-86	S1 (BULK)		7.01	1.79	64.26	16.29	17.66	0.56	3870 (9.00)	
* PE-168-86	+1/2"	49.31		1.01	76.11	15.40	7.48	0.62	1894 (4.41)	
PE-169-86	-1/2" + 1/4"	16.73		2.12	58.34	16.32	23.22	0.55	5003 (11.64)	
PE-170-86	-1/4" + 1/16"	15.90		2.44	49.18	17.57	30.81	0.47	6511 (15.14)	
PE-171-86	-1/16" + 24 mesh	9.66		2.75	45.91	18.80	32.54	0.54	6643 (15.45)	
PE-172-86	-24 mesh + 100 mesh	3.15		3.10	49.20	18.19	29.51	0.53	6185 (14.39)	
PE-173-86	-100 mesh	5.25		3.60	60.24	14.92	21.24	0.45	4329 (10.07)	
* PE-174-86	T1 (BULK)		7.37	2.77	50.44	21.29	25.66	1.43	5993 (13.94)	
* PE-175-86	+1/2"	42.80		2.07	53.82	23.86	20.65	1.80	5545 (12.90)	
PE-176-86	-1/2" + 1/4"	18.84		2.95	40.69	21.27	35.09	1.08	7850 (18.26)	
PE-177-86	-1/4" + 1/16"	17.73		3.07	51.64	17.49	27.80	0.67	5768 (13.42)	
PE-178-86	-1/16" + 24 mesh	11.02		3.47	51.32	18.24	26.97	1.13	5713 (13.29)	
PE-179-86	-24 mesh + 100 mesh	4.84		4.17	49.64	20.61	25.58	2.07	5446 (12.67)	
PE-180-86	-100 mesh	4.77		4.25	53.01	20.25	22.49	2.37	4707 (10.95)	
* PE-181-86	U1 (BULK)		4.99	1.31	78.52	10.25	9.92	0.40	2123 (4.94)	
* PE-182-86	+1/2"	65.07		0.81	88.99	7.75	2.45	0.07	645 (1.50)	
PE-183-86	-1/2" + 1/4"	10.80		1.59	72.60	11.59	14.22	2.38	2649 (6.16)	
PE-184-86	-1/4" + 1/16"	11.00		2.10	58.54	14.34	25.02	0.35	5077 (11.81)	
PE-185-86	-1/16" + 24 mesh	7.43		2.70	48.90	17.50	30.90	0.42	6569 (15.28)	
PE-186-86	-24 mesh + 100 mesh	2.60		2.89	47.23	17.93	31.95	0.48	6704 (15.59)	
PE-187-86	-100 mesh	3.10		3.37	47.57	19.66	29.40	0.49	6342 (14.75)	

Table 4 (Cont'd) - Analyses of sieve samples - A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
* PE-188-86	V1 (BULK)		11.49	2.77	65.95	14.34	16.94	0.59	3207 (7.46)	
* PE-189-86	+1/2"	32.90		1.54	67.68	14.46	16.32	0.72	2998 (6.97)	
PE-190-86	-1/2" + 1/4"	18.66		2.97	62.15	13.53	21.35	0.47	3891 (9.05)	
PE-191-86	-1/4" + 1/16"	17.75		3.56	59.71	14.72	22.01	0.54	3958 (9.21)	
PE-192-86	-1/16" + 24 mesh	12.93		3.81	64.96	14.79	16.44	0.62	3375 (7.85)	
PE-193-86	-24 mesh + 100 mesh	9.30		2.75	76.88	11.89	8.48	0.31	1821 (4.24)	
PE-194-86	-100 mesh	8.46		3.91	70.19	16.88	9.02	0.70	2203 (5.12)	
* PE-195-86	W1 (BULK)		8.26	2.38	58.84	16.46	22.32	0.50	4914 (11.43)	
* PE-196-86	+1/2"	41.24		1.02	80.15	11.27	7.59	0.39	1832 (4.26)	
PE-197-86	-1/2" + 1/4"	18.03		2.65	46.61	20.12	30.62	0.71	6880 (16.00)	
PE-198-86	-1/4" + 1/16"	19.31		3.16	43.77	19.34	33.73	0.54	7303 (16.99)	
PE-199-86	-1/16" + 24 mesh	12.24		3.77	40.51	20.53	35.19	0.51	7375 (17.15)	
PE-200-86	-24 mesh + 100 mesh	3.87		4.18	40.94	20.68	34.20	0.50	7039 (16.37)	
PE-201-86	-100 mesh	5.31		4.76	45.00	21.50	28.74	0.49	6266 (14.57)	
* PE-202-86	X1 (BULK)		10.55	5.64	11.70	28.73	53.93	0.74	11365 (26.43)	
* PE-203-86	+1/2"	1.52		1.86	42.82	18.93	36.39	0.73	7863 (18.29)	
PE-204-86	-1/2" + 1/4"	19.86		5.27	8.25	29.74	56.74	0.82	12232 (28.45)	
PE-205-86	-1/4" + 1/16"	42.04		5.63	9.00	29.91	55.46	0.75	11752 (27.34)	
PE-206-86	-1/16" + 24 mesh	21.91		5.96	12.34	28.78	52.92	0.72	11113 (25.85)	
PE-207-86	-24 mesh + 100 mesh	6.12		6.11	17.30	27.18	49.41	0.65	10254 (23.85)	
PE-208-86	-100 mesh	8.55		6.11	21.76	23.36	48.77	0.59	9512 (22.12)	

Table 4 (Cont'd) - Analyses of sieve samples - A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
*PE-209-86	Y1 (BULK)		14.06	2.35	45.92	18.37	33.35	0.56	7155 (16.64)	
*PE-210-86	+1/2"	21.76		0.84	67.20	13.30	18.66	0.63	4139 (9.63)	
PE-211-86	-1/2" + 1/4"	16.99		2.31	38.17	19.30	40.22	0.62	8585 (19.97)	
PE-212-86	-1/4" + 1/16"	22.72		2.84	32.49	21.73	42.94	0.49	9143 (21.27)	
PE-213-86	-1/16" + 24 mesh	18.95		2.75	42.75	19.15	35.35	0.58	7526 (17.51)	
PE-214-86	-24 mesh + 100 mesh	8.07		2.65	47.96	17.66	31.73	0.49	6716 (15.62)	
PE-215-86	-100 mesh	11.51		3.44	47.45	19.19	29.92	0.49	6520 (15.17)	
*PE-216-86	Z1 (BULK)		13.69	4.54	30.53	24.23	40.71	0.75	8564 (19.92)	
*PE-217-86	+1/2"	12.32		1.68	52.97	18.68	26.73	0.55	5655 (13.15)	
PE-218-86	-1/2" + 1/4"	16.87		3.88	21.48	25.94	48.70	0.81	10395 (24.18)	
PE-219-86	-1/4" + 1/16"	30.29		4.71	21.76	26.53	47.00	0.74	10022 (23.31)	
PE-220-86	-1/16" + 24 mesh	21.51		5.35	29.00	24.53	41.12	0.73	8562 (19.92)	
PE-221-86	-24 mesh + 100 mesh	7.21		5.84	34.25	23.35	36.56	0.73	7514 (17.48)	
PE-222-86	-100 mesh	11.80		5.76	43.08	21.66	29.50	0.97	5888 (13.70)	
*PE-223-86	AA1 (BULK)		10.52	1.51	72.42	12.62	13.51	0.31	2942 (6.84)	
*PE-224-86	+1/2"	55.45		0.98	86.64	9.15	3.34	0.10	813 (1.89)	
PE-225-86	-1/2" + 1/4"	12.22		1.36	74.16	12.16	12.32	0.61	2335 (5.43)	
PE-226-86	-1/4" + 1/16"	12.94		1.81	60.69	14.99	22.51	0.41	4828 (11.23)	
PE-227-86	-1/16" + 24 mesh	7.14		2.29	45.54	19.67	32.50	0.61	7291 (16.96)	
PE-228-86	-24 mesh + 100 mesh	3.40		2.80	32.26	22.87	42.07	0.68	9084 (21.13)	
PE-229-86	-100 mesh	8.85		3.44	35.18	21.94	39.44	0.63	8497 (19.76)	

Table 4 (Cont'd) - Analyses of sieve samples - A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
*PE-230-86	BB1 (BULK)		7.77	1.72	57.93	17.60	22.73	0.92	5161 (12.00)	
*PE-231-86	+1/2"	42.28		1.24	54.89	20.48	23.38	1.43	5669 (13.19)	
PE-232-86	-1/2" + 1/4"	18.54		1.88	61.33	15.26	21.53	0.62	4609 (10.72)	
PE-233-86	-1/4" + 1/16"	18.35		2.02	62.27	14.74	20.97	0.47	4459 (10.37)	
PE-234-86	-1/16" + 24 mesh	11.60		2.11	57.46	16.09	24.34	0.49	5319 (12.37)	
PE-235-86	-24 mesh + 100 mesh	3.93		2.30	54.69	16.75	26.26	0.58	5659 (13.16)	
PE-236-86	-100 mesh	5.30		2.76	58.75	16.71	21.78	0.61	4760 (11.07)	

Table 5 - Weight percentages of samples composited for float-sink analysis

Composite Sample	Sample	+1/2"	-1/2" + 1/4"	-1/4"+ 1/16"	-1/16" + 24 mesh	-24 mesh + 100 mesh
B1-C1	B1	57.84	55.74	53.96	53.57	50.00
	C1	42.16	44.26	46.04	46.43	50.00
F1-G1	F1	57.26	53.50	44.39	38.55	50.00
	G1	42.74	46.50	55.61	61.45	50.00
J1-K1	J1	43.46	53.12	48.45	47.59	50.00
	K1	56.54	46.88	51.55	52.41	50.00
N1-O1-P1	N1	47.45	34.12	33.55	34.55	33.33
	O1	29.78	31.82	37.10	35.79	33.33
	P1	22.77	34.06	29.35	29.66	33.33
Q1-R1-S1	Q1	12.64	27.21	35.58	39.95	33.33
	R1	24.08	27.91	28.01	32.68	33.33
	S1	63.28	44.88	36.41	27.37	33.33
T1-U1-	T1	20.38	26.43	24.30	21.36	25.00
V1-W1	U1	41.19	18.48	19.48	21.26	25.00
	V1	15.87	24.46	23.91	26.68	25.00
	W1	22.56	30.63	32.31	30.70	25.00
X1-Y1-Z1-	X1	0.77	18.71	28.80	22.78	20.00
AA1-BB1	Y1	11.31	16.21	15.32	20.39	20.00
	Z1	7.06	18.32	23.30	26.40	20.00
	AA1	47.63	18.88	13.97	12.15	20.00
	BB1	33.23	27.88	18.61	18.28	20.00

Table 6 - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
B1, +1/2"										
PE-237-86	F-1.30	1.75		2.37	13.23	24.23	60.17	1.01	12265 (28.53)	1.49
PE-238-86	S-1.30	7.92		2.30	7.49	31.00	59.21	1.21	13399 (31.17)	
PE-239-86	S-1.35	4.93		2.38	12.98	28.46	56.18	1.28	12486 (29.04)	
PE-240-86	S-1.40	3.09		1.94	29.66	23.99	44.41	2.61	9983 (23.22)	
PE-241-86	S-1.50	4.54		1.85	28.76	26.59	42.80	3.61	9847 (22.90)	
PE-242-86	S-1.60	5.96		1.83	35.39	26.33	36.45	4.80	8984 (20.90)	
PE-243-86	S-1.70	71.81		1.53	84.24	11.06	3.17	0.30	895 (2.08)	2.54
C1, +1/2"										
PE-244-86	F-1.30	6.43		1.60	22.88	15.95	59.57	0.67	10841 (25.22)	1.695
PE-245-86	S-1.30	3.97		2.35	12.78	29.64	55.23	1.18	12478 (29.02)	
PE-246-86	S-1.35	1.91		2.32	23.90	25.08	48.70	1.54	10812 (25.15)	
PE-247-86	S-1.40	2.78		1.39	46.68	18.57	33.36	1.80	7637 (17.76)	
PE-248-86	S-1.50	2.43		1.13	56.48	14.59	27.80	1.55	6051 (14.07)	
PE-249-86	S-1.60	2.56		1.09	68.22	10.80	19.89	1.51	4262 (9.91)	
PE-250-86	S-1.70	79.92		1.09	84.97	10.47	3.47	0.73	1196 (2.78)	2.485
B1-C1, +1/2"										
* PE-251-86	F-1.30	3.72		2.05	17.30	20.74	59.91	0.87	11664 (27.13)	1.575
* PE-252-86	S-1.30	6.26		2.32	9.72	30.43	57.53	1.20	13010 (30.26)	
* PE-253-86	S-1.35	3.66		2.35	17.59	27.03	53.03	1.39	11780 (27.40)	
* PE-254-86	S-1.40	2.96		1.71	36.84	21.70	39.75	2.27	8993 (20.92)	
* PE-255-86	S-1.50	3.65		1.55	40.46	21.53	36.46	2.74	8245 (19.18)	
* PE-256-86	S-1.60	4.52		1.52	49.24	19.78	29.46	3.41	6992 (16.26)	
* PE-257-86	S-1.70	75.23		1.34	84.55	10.81	3.30	0.48	1022 (2.38)	2.515

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.	Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
B1-C1, -1/2" + 1/4"									
PE-258-86 F-1.30	10.85		1.81	24.57	14.14	59.48	0.73	10420 (24.24)	1.75
PE-259-86 S-1.30	16.03		3.18	6.76	29.60	60.46	1.01	13085 (30.44)	
PE-260-86 S-1.35	6.67		2.79	16.09	26.40	54.72	1.36	11731 (27.29)	
PE-261-86 S-1.40	4.25		2.33	28.36	22.79	46.52	1.66	9953 (23.15)	
PE-262-86 S-1.50	3.39		1.91	44.43	17.83	35.83	1.79	7528 (17.51)	
PE-263-86 S-1.60	2.19		1.68	55.99	16.36	25.97	1.83	5792 (13.47)	
PE-264-86 S-1.70	56.62		1.47	88.28	7.89	2.36	0.32	158 (0.37)	2.405
B1-C1, -1/4" + 1/16"									
PE-265-86 F-1.30	9.33		2.18	31.19	12.55	54.08	0.63	9211 (21.42)	2.225
PE-266-86 S-1.30	20.56		3.45	6.89	29.51	60.15	0.93	12834 (29.85)	
PE-267-86 S-1.35	6.96		3.10	15.39	26.43	55.08	0.96	11497 (26.74)	
PE-268-86 S-1.40	5.61		2.58	30.68	20.44	46.30	1.01	9263 (21.55)	
PE-269-86 S-1.50	3.21		2.36	48.64	15.96	33.04	1.01	6624 (15.41)	
PE-270-86 S-1.60	1.98		1.82	61.41	13.81	22.96	0.90	4776 (11.11)	
PE-271-86 S-1.70	52.35		1.45	87.02	9.01	2.52	0.12	683 (1.59)	2.58
B1-C1, -1/16" + 24 mesh									
PE-272-86 F-1.30	7.45		3.48	19.27	19.63	57.62	0.75	10684 (24.85)	1.615
PE-273-86 S-1.30	13.66		4.15	6.81	28.94	60.10	0.86	12702 (29.54)	
PE-274-86 S-1.35	13.13		3.74	10.56	28.03	57.67	0.86	12091 (28.12)	
PE-275-86 S-1.40	7.96		3.55	20.88	23.24	52.33	0.87	10314 (23.99)	
PE-276-86 S-1.50	5.23		3.27	33.09	18.43	45.21	0.81	8567 (19.93)	
PE-277-86 S-1.60	2.57		3.32	40.76	19.34	36.58	0.75	7462 (17.36)	
PE-278-86 S-1.70	50.00		1.78	81.47	10.19	6.56	0.30	1374 (3.20)	1.99

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
B1-C1, -24 mesh + 100 mesh										
PE-279-86	F-1.30	1.34	4.81	19.53	23.03	52.63	0.76	10179 (23.68)		
PE-280-86	S-1.30	5.16	4.02	5.16	28.93	61.89	0.81	12940 (30.10)		
PE-281-86	S-1.35	10.04	4.34	6.07	28.31	61.28	0.84	12633 (29.38)		
PE-282-86	S-1.40	13.80	4.05	11.68	27.24	57.03	0.85	11532 (26.82)		
PE-283-86	S-1.50	6.13	4.70	21.53	25.07	48.70	0.81	9694 (22.55)		
PE-284-86	S-1.60	4.10	4.59	31.36	21.20	42.85	0.75	8066 (18.76)		
PE-285-86	S-1.70	59.43	3.73	69.09	12.22	15.96	0.46	2723 (6.33)		
F1, +1/2"										
PE-286-86	F-1.30	11.22	1.51	17.24	14.37	66.88	0.75	11742 (27.31)	1.68	
PE-287-86	S-1.30	3.74	2.20	8.41	29.63	59.76	1.17	13333 (31.01)		
PE-288-86	S-1.35	6.30	1.99	15.60	28.43	53.98	1.47	12272 (28.54)		
PE-289-86	S-1.40	4.08	2.05	26.81	25.85	45.29	1.86	10266 (23.88)		
PE-290-86	S-1.50	7.94	2.58	31.92	25.14	40.36	4.19	9388 (21.84)		
PE-291-86	S-1.60	1.57	1.85	49.58	19.35	29.22	3.28	6699 (15.58)		
PE-292-86	S-1.70	65.15	1.20	83.98	10.06	4.76	1.04	1403 (3.26)	2.535	
G1, +1/2"										
PE-293-86	F-1.30	25.23	1.59	10.56	16.31	71.54	0.94	12723 (29.59)	1.615	
PE-294-86	S-1.30	7.02	2.21	6.12	31.44	60.23	1.06	13726 (31.93)		
PE-295-86	S-1.35	6.17	1.64	15.90	27.10	55.36	1.36	12420 (28.89)		
PE-296-86	S-1.40	2.41	1.65	23.38	25.60	49.37	2.85	10872 (25.29)		
PE-297-86	S-1.50	2.46	1.65	39.80	22.14	36.41	0.59	8531 (19.84)		
PE-298-86	S-1.60	2.98	0.84	75.63	10.19	13.34	1.37	3217 (7.48)		
PE-299-86	S-1.70	53.73	1.39	79.30	14.04	5.27	0.87	1697 (3.95)	2.44	

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
F1-G1, +1/2"										
*PE-300-86	F-1.30	17.24		1.54	14.37	15.20	68.89	0.83	12164 (28.29)	1.65
*PE-301-86	S-1.30	5.15		2.20	7.43	30.41	59.96	1.12	13502 (31.41)	
*PE-302-86	S-1.35	6.24		1.84	15.73	27.86	54.57	1.42	12336 (28.69)	
*PE-303-86	S-1.40	3.36		1.88	25.33	25.74	47.05	2.29	10527 (24.49)	
*PE-304-86	S-1.50	5.59		2.18	35.31	23.85	38.66	2.64	9019 (20.98)	
*PE-305-86	S-1.60	2.18		1.42	60.78	15.41	22.39	2.46	5201 (12.10)	
*PE-306-86	S-1.70	60.24		1.28	81.97	11.77	4.98	0.97	1529 (3.56)	2.495
F1-G1, -1/2" + 1/4"										
PE-307-86	F-1.30	22.89		2.12	14.64	20.34	62.90	0.85	11981 (27.87)	1.535
PE-308-86	S-1.30	23.37		3.03	5.68	30.73	60.56	0.97	13371 (31.10)	
PE-309-86	S-1.35	6.58		2.57	15.36	27.66	54.41	1.39	11953 (27.80)	
PE-310-86	S-1.40	3.12		2.23	25.92	24.86	46.99	1.67	10250 (23.84)	
PE-311-86	S-1.50	2.39		1.68	50.08	17.47	30.77	1.74	6692 (15.57)	
PE-312-86	S-1.60	1.59		1.57	61.87	14.03	22.53	1.18	5020 (11.68)	
PE-313-86	S-1.70	40.06		1.40	89.40	8.22	0.98	0.28	176 (0.41)	2.66
F1-G1, -1/4" + 1/16"										
PE-314-86	F-1.30	13.96		2.63	14.24	22.65	60.48	0.77	11971 (27.84)	1.45
PE-315-86	S-1.30	30.23		3.67	4.99	29.54	61.80	0.85	13166 (30.62)	
PE-316-86	S-1.35	7.53		3.15	13.62	27.38	55.85	0.92	11847 (27.56)	
PE-317-86	S-1.40	3.36		3.04	25.85	21.70	49.41	1.02	9994 (23.25)	
PE-318-86	S-1.50	2.24		2.21	45.36	17.13	35.30	0.85	7144 (16.62)	
PE-319-86	S-1.60	1.91		1.96	58.72	16.02	23.30	0.73	5158 (12.00)	
PE-320-86	S-1.70	40.77		1.46	87.64	9.87	1.03	0.17	534 (1.24)	2.90

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
F1-G1, -1/16" + 24 mesh										
PE-321-86	F-1.30	8.88		4.05	10.45	26.00	59.50	0.74	12158 (28.28)	1.46
PE-322-86	S-1.30	30.57		4.00	5.24	29.03	61.73	0.83	12984 (30.20)	
PE-323-86	S-1.35	8.03		3.81	10.18	27.14	58.87	0.93	12108 (28.16)	
PE-324-86	S-1.40	4.38		3.58	20.30	23.26	52.86	0.91	10504 (24.43)	
PE-325-86	S-1.50	2.82		3.17	28.29	20.16	48.38	0.88	9314 (21.66)	
PE-326-86	S-1.60	2.13		3.02	42.35	17.96	36.67	0.84	7361 (17.12)	
PE-327-86	S-1.70	43.19		1.61	82.24	11.50	4.65	0.58	1059 (2.46)	2.92
F1-G1, -24 mesh + 100 mesh										
PE-328-86	F-1.30	1.80		4.59	13.34	26.07	56.00	0.87	11207 (26.07)	
PE-329-86	S-1.30	4.47		3.61	3.67	30.16	62.56	0.79	13349 (31.05)	
PE-330-86	S-1.35	22.21		4.45	5.89	28.18	61.48	0.84	12700 (29.54)	
PE-331-86	S-1.40	11.81		4.32	10.94	27.59	57.15	0.93	11644 (27.08)	
PE-332-86	S-1.50	5.70		4.65	19.28	26.34	49.73	0.93	9970 (23.19)	
PE-333-86	S-1.60	4.27		4.20	30.27	21.37	44.16	0.91	8348 (19.42)	
PE-334-86	S-1.70	49.74		2.71	67.97	13.79	15.53	0.72	2577 (5.99)	
J1, +1/2"										
PE-335-86	F-1.30	14.94		1.66	13.93	15.35	69.06	0.91	12243 (28.48)	1.59
PE-336-86	S-1.30	12.60		2.81	7.09	30.65	59.45	1.17	13222 (30.75)	
PE-337-86	S-1.35	4.88		2.11	20.25	24.54	53.10	1.76	11456 (26.65)	
PE-338-86	S-1.40	1.25		2.53	25.21	24.65	47.61	1.97	10405 (24.20)	
PE-339-86	S-1.50	6.45		2.44	37.28	22.50	37.78	1.30	8469 (19.70)	
PE-340-86	S-1.60	1.39		1.41	65.87	13.40	19.32	0.66	4491 (10.45)	
PE-341-86	S-1.70	58.49		1.51	70.14	16.77	11.58	3.27	3351 (7.79)	2.245

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
K1, +1/2"										
PE-342-86	F-1.30	8.75		2.19	10.94	23.53	63.34	0.77	12715 (29.58)	1.47
PE-343-86	S-1.30	8.52		2.85	7.21	30.67	59.27	1.18	13317 (30.98)	
PE-344-86	S-1.35	3.10		2.47	21.01	24.77	51.75	1.74	11121 (25.87)	
PE-345-86	S-1.40	10.25		2.66	22.18	27.04	48.12	5.06	10809 (25.14)	
PE-346-86	S-1.50	4.08		1.77	33.04	26.79	38.40	1.41	9185 (21.36)	
PE-347-86	S-1.60	8.35		2.09	36.01	24.79	37.11	6.96	8509 (19.79)	
PE-348-86	S-1.70	56.95		1.22	90.26	8.26	0.26	0.22	180 (0.42)	2.675
J1-K1, +1/2"										
*PE-349-86	F-1.30	11.44		1.96	12.24	19.97	65.83	0.83	12510 (29.10)	1.52
*PE-350-86	S-1.30	10.30		2.83	7.16	30.66	59.35	1.18	13276 (30.88)	
*PE-351-86	S-1.35	3.87		2.31	20.68	24.67	52.34	1.75	11267 (26.21)	
*PE-352-86	S-1.40	6.34		2.60	23.50	26.00	47.90	3.72	10633 (24.73)	
*PE-353-86	S-1.50	5.11		2.06	34.89	24.92	38.13	1.36	8873 (20.64)	
*PE-354-86	S-1.60	5.32		1.79	49.01	19.83	29.37	4.22	6760 (15.72)	
*PE-355-86	S-1.70	57.62		1.35	81.50	11.96	5.19	1.55	1560 (3.63)	2.49
J1-K1, -1/2" + 1/4"										
PE-356-86	F-1.30	21.94		2.35	12.92	18.89	65.84	0.73	12155 (28.27)	1.58
PE-357-86	S-1.30	23.45		3.37	5.58	31.15	59.90	0.92	13282 (30.89)	
PE-358-86	S-1.35	5.20		2.77	16.34	26.81	54.08	1.27	11719 (27.26)	
PE-359-86	S-1.40	2.83		2.34	30.54	22.89	44.23	1.27	9626 (22.39)	
PE-360-86	S-1.50	2.42		1.84	52.14	16.88	29.14	1.05	6396 (14.88)	
PE-361-86	S-1.60	1.70		1.69	65.13	13.69	19.49	0.95	4468 (10.39)	
PE-362-86	S-1.70	42.46		1.42	86.97	9.52	2.09	0.12	785 (1.83)	2.575

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
J1-K1, -1/4" + 1/16"										
PE-363-86	F-1.30	17.52		2.55	13.89	20.74	62.82	0.71	11947 (27.79)	1.545
PE-364-86	S-1.30	23.94		3.73	5.31	29.68	61.28	0.85	13091 (30.45)	
PE-365-86	S-1.35	4.43		2.90	17.30	23.12	56.68	0.91	11362 (26.43)	
PE-366-86	S-1.40	3.07		2.49	29.56	18.68	49.27	0.89	9527 (22.16)	
PE-367-86	S-1.50	2.47		2.30	46.30	15.36	36.04	0.77	7003 (16.29)	
PE-368-86	S-1.60	1.64		1.94	63.78	13.35	20.93	0.68	4467 (10.39)	
PE-369-86	S-1.70	46.93		1.61	88.74	9.26	0.39	0.10	191 (0.44)	2.44
J1-K1, -1/16" + 24 mesh										
PE-370-86	F-1.30	7.67		3.75	11.37	24.11	60.77	0.76	12144 (28.25)	1.55
PE-371-86	S-1.30	20.61		4.05	5.28	29.22	61.45	0.81	13031 (30.31)	
PE-372-86	S-1.35	8.84		3.69	12.54	26.15	57.62	0.91	11827 (27.51)	
PE-373-86	S-1.40	3.88		3.31	25.72	21.41	49.56	0.90	9767 (22.72)	
PE-374-86	S-1.50	1.93		2.90	35.96	17.31	43.83	0.80	8332 (19.38)	
PE-375-86	S-1.60	2.08		2.93	48.70	16.32	32.05	0.79	6448 (15.00)	
PE-376-86	S-1.70	54.99		1.96	85.92	9.93	2.19	0.28	177 (0.41)	2.49
J1-K1, -24 mesh + 100 mesh										
PE-377-86	F-1.30	2.03		3.92	13.79	25.49	56.80	1.01	11377 (26.46)	
PE-378-86	S-1.30	5.67		3.59	4.75	29.70	61.96	0.74	13177 (30.65)	
PE-379-86	S-1.35	11.00		3.88	6.64	29.20	60.28	0.84	12709 (29.56)	
PE-380-86	S-1.40	10.16		3.81	12.14	27.45	56.60	0.97	11631 (27.05)	
PE-381-86	S-1.50	5.91		3.99	20.04	26.58	49.39	0.99	10091 (23.47)	
PE-382-86	S-1.60	3.51		3.87	30.23	22.62	43.28	0.96	8437 (19.62)	
PE-383-86	S-1.70	61.72		3.18	70.56	13.49	12.77	0.64	2007 (4.67)	

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
M1, +1/2"										
PE-384-86	F-1.30	3.42		1.70	28.56	16.26	53.48	0.74	9780 (22.75)	
PE-385-86	S-1.30	8.60		2.60	8.90	30.83	57.67	1.14	13160 (30.61)	
PE-386-86	S-1.35	1.55		2.02	18.27	27.80	51.91	1.20	11643 (27.08)	
PE-387-86	S-1.40	23.40		1.66	20.91	27.35	50.08	4.03	11430 (26.59)	
PE-388-86	S-1.50	4.80		1.36	37.99	27.96	32.69	0.81	7843 (18.24)	
PE-389-86	S-1.60	1.28		0.79	71.07	10.81	17.33	2.87	3913 (9.10)	
PE-390-86	S-1.70	56.95		1.14	89.33	7.44	2.09	0.22	221 (0.51)	
O1, +1/2"										
PE-391-86	F-1.30	18.65		1.90	19.93	16.01	62.16	0.90	11280 (26.24)	
PE-392-86	S-1.30	9.97		2.30	8.71	32.93	56.06	1.60	13117 (30.51)	
PE-393-86	S-1.35	5.69		1.77	27.67	27.04	43.52	1.16	10165 (23.64)	
PE-394-86	S-1.40	8.05		1.32	45.20	19.93	33.55	1.22	7680 (17.86)	
PE-395-86	S-1.50	2.02		0.95	64.42	15.84	18.79	1.23	4577 (10.65)	
PE-396-86	S-1.60	5.79		0.61	77.36	9.99	12.04	1.01	2876 (6.69)	
PE-397-86	S-1.70	49.83		0.64	92.18	7.00	0.18	0.18	188 (0.44)	
P1, +1/2"										
PE-398-86	F-1.30	22.72		1.03	36.36	6.68	55.93	0.65	8156 (18.97)	
PE-399-86	S-1.30	2.73		1.23	43.13	19.77	35.87	0.79	8153 (18.96)	
PE-400-86	S-1.35	2.73		0.40	82.55	7.10	9.95	0.20	2407 (5.60)	
PE-401-86	S-1.40	9.34		0.38	88.01	5.18	6.43	0.21	1290 (3.00)	
PE-402-86	S-1.50	3.15		0.54	91.56	4.84	3.06	0.18	203 (0.47)	
PE-403-86	S-1.60	9.61		0.19	96.40	2.05	1.36	0.10	140 (0.33)	
PE-404-86	S-1.70	49.72		0.20	96.79	2.29	0.72	0.22	112 (0.26)	

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.	Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
N1-01-P1, +1/2"									
* PE-405-86 F-1.30	12.40		1.61	27.77	14.00	56.62	0.77	9857 (22.93)	
* PE-406-86 S-1.30	7.66		2.20	16.64	28.94	52.22	1.20	12007 (27.93)	
* PE-407-86 S-1.35	3.06		1.58	35.71	22.86	39.85	0.96	9100 (21.17)	
* PE-408-86 S-1.40	15.59		1.27	43.42	20.09	35.22	2.32	8004 (18.62)	
* PE-409-86 S-1.50	3.59		1.05	58.06	19.09	21.80	0.79	5131 (11.93)	
* PE-410-86 S-1.60	4.54		0.60	78.71	8.57	12.12	1.69	2745 (6.38)	
* PE-411-86 S-1.70	53.16		0.78	91.88	6.14	1.20	0.21	186 (0.43)	
N1-01-P1, -1/2" + 1/4"									
PE-412-86 F-1.30	26.05		1.58	25.27	12.94	60.21	0.39	10313 (23.99)	
PE-413-86 S-1.30	14.47		2.38	10.23	30.04	57.35	1.04	11607 (27.00)	
PE-414-86 S-1.35	2.69		1.91	27.99	25.10	45.00	1.11	9992 (23.24)	
PE-415-86 S-1.40	7.42		1.48	46.12	18.82	33.58	1.03	7473 (17.38)	
PE-416-86 S-1.50	2.74		1.17	58.53	15.88	24.42	0.84	5431 (12.63)	
PE-417-86 S-1.60	3.33		0.49	83.10	8.02	8.39	0.42	1965 (4.57)	
PE-418-86 S-1.70	43.30		0.69	92.23	6.97	0.11	0.18	148 (0.34)	
N1-01-P1, -1/4" + 1/16"									
PE-419-86 F-1.30	17.46		1.96	24.55	17.48	56.01	0.70	10305 (23.97)	
PE-420-86 S-1.30	19.79		2.71	11.05	28.21	58.03	0.84	12243 (28.48)	
PE-421-86 S-1.35	4.18		2.04	21.62	24.19	52.15	0.85	10692 (24.87)	
PE-422-86 S-1.40	7.37		1.76	35.33	20.98	41.93	0.74	8644 (20.11)	
PE-423-86 S-1.50	2.94		1.43	54.49	15.47	28.61	0.66	5878 (13.67)	
PE-424-86 S-1.60	3.93		1.00	71.54	12.95	14.51	0.40	3258 (7.58)	
PE-425-86 S-1.70	44.33		0.85	90.15	8.41	0.59	0.17	252 (0.59)	

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.	Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
N1-01-P1, -1/16" + 24 mesh									
PE-426-86 F-1.30	5.35	2.77	29.08	23.37	55.22	0.69	10437 (24.28)		
PE-427-86 S-1.30	17.70	2.70	9.26	29.68	58.36	0.87	12363 (28.76)		
PE-428-86 S-1.35	4.31	2.62	14.10	27.67	55.61	0.85	11630 (27.05)		
PE-429-86 S-1.40	7.03	2.31	28.55	21.12	48.02	0.76	9472 (22.03)		
PE-430-86 S-1.50	3.06	2.48	30.75	22.64	44.13	0.72	8957 (20.83)		
PE-431-86 S-1.60	3.55	1.84	50.35	17.39	30.42	0.66	6308 (14.67)		
PE-432-86 S-1.70	59.00	1.12	84.25	11.65	2.98	0.17	1326 (3.08)		
N1-01-P1, -24 mesh + 100 mesh									
PE-433-86 F-1.30	0.95	4.86	19.01	23.75	52.38	0.79	10306 (23.97)		
PE-434-86 S-1.30	2.96	3.43	5.25	28.85	62.47	0.74	13213 (30.73)		
PE-435-86 S-1.35	10.37	4.40	5.98	28.80	60.82	0.79	12623 (29.36)		
PE-436-86 S-1.40	7.22	4.41	12.98	27.72	54.89	0.89	11290 (26.26)		
PE-437-86 S-1.50	4.47	5.12	21.83	27.74	47.31	0.75	9506 (22.11)		
PE-438-86 S-1.60	3.28	4.62	32.00	19.97	43.41	0.66	7955 (18.50)		
PE-439-86 S-1.70	70.75	1.53	81.10	8.58	8.79	0.18	1344 (3.13)		
01, +1/2"									
PE-440-86 F-1.30	19.32	0.92	33.90	10.50	54.68	0.64	8439 (19.63)		
PE-441-86 S-1.30	4.75	1.80	15.19	31.55	51.46	1.03	12223 (28.43)		
PE-442-86 S-1.35	2.68	1.22	25.91	27.30	45.57	1.49	10785 (25.09)		
PE-443-86 S-1.40	3.95	0.62	73.14	12.29	13.95	0.56	3737 (8.69)		
PE-444-86 S-1.50	2.55	0.34	87.60	6.25	5.81	0.28	164 (0.38)		
PE-445-86 S-1.60	6.27	0.41	91.12	6.94	1.53	0.49	160 (0.37)		
PE-446-86 S-1.70	60.48	0.47	95.56	4.05	-	0.20	142 (0.33)		

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.	Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
R1, +1/2"									
PE-447-86 F-1.30	12.96	0.78	26.68	8.75	63.79	0.72	10076 (23.44)		
PE-448-86 S-1.30	3.04	1.54	10.74	28.49	59.23	0.83	12946 (30.11)		
PE-449-86 S-1.35	1.05	1.34	21.21	28.11	49.34	1.17	11622 (27.03)		
PE-450-86 S-1.40	2.13	0.37	83.93	5.86	9.84	0.04	1728 (4.02)		
PE-451-86 S-1.50	0.69	0.29	88.10	5.77	5.84	0.79	1742 (4.05)		
PE-452-86 S-1.60	1.17	0.45	78.10	7.53	13.92	0.81	2818 (6.55)		
PE-453-86 S-1.70	78.96	0.30	88.44	8.39	2.87	0.04	940 (2.19)		
S1, +1/2"									
PE-454-86 F-1.30	1.87	1.44	35.94	19.84	42.78	0.61	8741 (20.33)		
PE-455-86 S-1.30	5.25	2.16	8.99	39.95	48.90	1.28	12985 (30.20)		
PE-456-86 S-1.35	2.54	1.55	21.66	28.99	47.80	1.41	11202 (26.06)		
PE-457-86 S-1.40	4.25	1.38	34.88	24.34	39.40	2.49	9147 (21.28)		
PE-458-86 S-1.50	2.25	1.22	36.03	23.74	39.01	4.70	8986 (20.90)		
PE-459-86 S-1.60	1.19	1.01	51.64	19.27	28.08	0.93	6759 (15.72)		
PE-460-86 S-1.70	82.65	0.88	86.52	12.58	0.02	0.34	112 (0.26)		
Q1-R1-S1, +1/2"									
*PE-461-86 F-1.30	6.76	1.22	33.45	15.99	49.34	0.64	9024 (20.99)		
*PE-462-86 S-1.30	4.65	1.97	10.20	36.13	51.70	1.14	12879 (29.96)		
*PE-463-86 S-1.35	2.20	1.46	22.09	28.56	47.89	1.36	11250 (26.17)		
*PE-464-86 S-1.40	3.70	1.04	51.53	18.37	29.06	1.66	6677 (15.53)		
*PE-465-86 S-1.50	1.91	0.88	55.09	17.20	26.83	3.20	6127 (14.25)		
*PE-466-86 S-1.60	1.83	0.80	63.00	14.88	21.32	0.85	4976 (11.57)		
*PE-467-86 S-1.70	78.95	0.69	88.12	10.49	0.70	0.25	315 (0.73)		

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
Q1-R1-S1, -1/2" + 1/4"										
PE-468-86	F-1.30	19.66		0.92	26.34	11.94	60.80	0.66	9920 (23.07)	
PE-469-86	S-1.30	22.40		2.16	10.03	34.07	53.74	0.94	12785 (29.74)	
PE-470-86	S-1.35	3.65		1.76	27.89	28.38	41.97	0.36	10257 (23.86)	
PE-471-86	S-1.40	4.74		1.47	36.70	26.74	35.09	1.36	8763 (20.38)	
PE-472-86	S-1.50	2.54		0.89	62.84	18.32	17.95	0.77	5109 (11.88)	
PE-473-86	S-1.60	3.06		0.53	81.90	13.38	4.19	0.52	2140 (4.98)	
PE-474-86	S-1.70	43.95		0.67	91.88	7.50	-	0.07	120 (0.28)	
Q1-R1-S1, -1/4" + 1/16"										
PE-475-86	F-1.30	14.52		1.76	22.04	23.87	52.33	0.68	10831 (25.19)	
PE-476-86	S-1.30	31.44		2.22	7.51	38.32	51.95	0.83	13043 (30.34)	
PE-477-86	S-1.35	4.28		1.85	18.03	31.03	49.09	0.89	11357 (26.42)	
PE-478-86	S-1.40	6.62		1.90	30.77	21.67	45.66	0.82	9304 (21.64)	
PE-479-86	S-1.50	2.43		1.57	48.22	14.91	34.30	0.67	6710 (15.61)	
PE-480-86	S-1.60	2.84		1.11	69.95	10.41	18.53	0.44	3205 (7.45)	
PE-481-86	S-1.70	37.87		1.07	89.52	7.89	1.52	0.04	132 (0.31)	
Q1-R1-S1, -1/16" + 24 mesh										
PE-482-86	F-1.30	7.33		2.70	11.67	26.08	59.55	0.72	12371 (28.77)	
PE-483-86	S-1.30	34.08		2.38	8.12	28.84	60.66	0.74	12984 (30.20)	
PE-484-86	S-1.35	6.74		2.31	9.40	28.47	59.82	0.80	12623 (29.36)	
PE-485-86	S-1.40	7.23		2.50	24.50	22.51	50.49	0.83	10045 (23.36)	
PE-486-86	S-1.50	2.00		2.18	38.69	19.62	39.51	0.84	7823 (18.20)	
PE-487-86	S-1.60	4.12		2.17	38.07	18.10	41.66	0.68	8056 (18.74)	
PE-488-86	S-1.70	38.50		1.10	83.61	9.19	6.10	0.18	1353 (3.15)	

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
Q1-R1-S1, -24 mesh + 100 mesh										
PE-489-86	F-1.30	1.65		3.73	12.11	25.42	58.74	0.73	11901 (27.68)	
PE-490-86	S-1.30	20.60		3.23	3.04	30.54	63.19	0.77	13734 (31.95)	
PE-491-86	S-1.35	10.55		4.23	6.51	29.30	59.96	0.83	12706 (29.55)	
PE-492-86	S-1.40	10.37		4.15	10.80	28.24	56.81	0.88	11780 (27.40)	
PE-493-86	S-1.50	4.22		4.93	20.95	26.28	47.84	0.82	9707 (22.58)	
PE-494-86	S-1.60	3.17		4.49	29.66	21.14	44.71	0.70	8425 (19.60)	
PE-495-86	S-1.70	49.44		1.98	76.25	10.01	11.76	0.27	1961 (4.56)	
T1, +1/2"										
PE-496-86	F-1.30	3.04		2.34	7.39	32.29	57.98	1.01	13330 (31.01)	
PE-497-86	S-1.30	8.00		2.29	7.52	33.66	56.53	1.38	13292 (30.92)	
PE-498-86	S-1.35	4.46		1.81	13.89	31.03	53.27	1.60	12428 (28.91)	
PE-499-86	S-1.40	4.96		1.67	18.46	29.04	50.83	3.20	11638 (27.07)	
PE-500-86	S-1.50	7.15		1.81	32.46	32.05	33.68	1.88	8976 (20.88)	
PE-501-86	S-1.60	10.51		1.28	38.84	22.69	37.19	2.16	8409 (19.56)	
PE-502-86	S-1.70	61.88		1.59	72.81	20.50	5.10	1.73	2294 (5.34)	
U1, +1/2"										
PE-503-86	F-1.30	1.04		1.13	28.28	18.68	51.91	0.61	10437 (24.28)	
PE-504-86	S-1.30	2.39		1.68	8.21	29.52	60.59	0.76	13557 (31.53)	
PE-505-86	S-1.35	0.25		1.68	38.79	20.55	38.98	0.92	8422 (19.59)	
PE-506-86	S-1.40	0.21		1.16	29.98	22.74	46.12	2.41	10145 (23.60)	
PE-507-86	S-1.50	0.11		0.72	64.34	11.52	23.42	1.09	4888 (11.37)	
PE-508-86	S-1.60	0.75		0.96	50.64	18.02	30.38	2.98	6960 (16.19)	
PE-509-86	S-1.70	95.25		0.78	92.27	6.93	0.02	0.02	118 (0.27)	

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
V1, +1/2"										
PE-510-86	F-1.30	5.84		3.63	8.01	20.30	68.06	1.01	12256 (28.51)	
PE-511-86	S-1.30	4.79		2.53	9.08	30.96	57.43	1.12	12820 (29.82)	
PE-512-86	S-1.35	2.90		2.48	13.62	28.11	55.79	1.39	11869 (27.61)	
PE-513-86	S-1.40	4.18		1.74	23.32	24.45	50.49	1.41	10630 (24.73)	
PE-514-86	S-1.50	8.40		2.11	31.10	19.40	47.39	1.08	8643 (20.10)	
PE-515-86	S-1.60	1.44		1.30	47.44	17.33	33.93	1.54	7122 (16.57)	
PE-516-86	S-1.70	72.45		1.20	85.73	11.14	1.93	0.55	71 (0.17)	
W1, +1/2"										
PE-517-86	F-1.30	2.44		2.16	9.17	27.14	61.53	0.94	12558 (29.21)	
PE-518-86	S-1.30	4.91		2.33	6.13	33.32	58.22	1.23	13412 (31.20)	
PE-519-86	S-1.35	1.74		1.74	16.58	29.30	52.38	1.70	11654 (27.11)	
PE-520-86	S-1.40	3.47		1.57	20.27	30.14	48.02	3.24	11131 (25.89)	
PE-521-86	S-1.50	0.89		1.28	36.45	22.79	39.48	1.51	8591 (19.98)	
PE-522-86	S-1.60	1.18		0.93	53.89	19.36	25.82	2.79	6275 (14.60)	
PE-523-86	S-1.70	85.37		0.87	90.98	8.18	-	0.14	149 (0.35)	
T1-U1-V1-W1, +1/2"										
*PE-524-86	F-1.30	2.51		2.01	16.49	23.62	57.88	0.83	11794 (27.43)	
*PE-525-86	S-1.30	4.48		2.09	7.74	31.45	58.72	1.05	13353 (31.06)	
*PE-526-86	S-1.35	1.86		1.85	24.71	25.86	47.58	1.31	10515 (24.46)	
*PE-527-86	S-1.40	2.54		1.45	24.38	25.96	48.21	2.60	10749 (25.00)	
*PE-528-86	S-1.50	3.02		1.29	46.28	19.50	32.93	1.34	7152 (16.64)	
*PE-529-86	S-1.60	2.94		1.07	48.46	19.16	31.31	2.54	7126 (16.58)	
*PE-530-86	S-1.70	82.65		1.03	86.98	10.65	1.34	0.48	561 (1.30)	

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.	Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
T1-U1-V1-W1, -1/2" + 1/4"									
PE-531-86 F-1.30	10.27		2.67	11.50	25.23	60.60	0.84	12468 (29.00)	
PE-532-86 S-1.30	20.54		2.76	6.99	31.07	59.18	1.04	13101 (30.47)	
PE-533-86 S-1.35	5.05		2.64	11.74	28.74	56.88	1.14	12297 (28.60)	
PE-534-86 S-1.40	5.52		2.19	21.31	25.99	50.51	1.39	10671 (24.82)	
PE-535-86 S-1.50	3.13		1.94	34.89	22.41	40.76	1.38	8599 (20.00)	
PE-536-86 S-1.60	2.15		2.00	44.51	20.27	33.22	1.84	7050 (16.40)	
PE-537-86 S-1.70	53.34		1.49	86.61	9.78	2.12	0.35	163 (0.38)	
T1-U1-V1-W1, -1/4" + 1/16"									
PE-538-86 F-1.30	7.03		2.00	14.79	22.85	60.36	0.75	11788 (27.42)	
PE-539-86 S-1.30	23.30		2.36	5.82	30.99	60.83	0.88	13102 (30.48)	
PE-540-86 S-1.35	7.00		2.16	12.40	27.50	57.94	0.96	11952 (27.80)	
PE-541-86 S-1.40	6.45		2.85	17.71	26.72	52.72	0.93	10709 (24.91)	
PE-542-86 S-1.50	3.38		3.00	31.66	23.95	41.39	0.92	8372 (19.47)	
PE-543-86 S-1.60	1.89		2.24	45.39	20.67	31.70	0.88	6765 (15.74)	
PE-544-86 S-1.70	50.95		1.39	87.08	9.85	1.68	0.33	177 (0.41)	
T1-U1-V1-W1, -1/16" + 24 mesh									
PE-545-86 F-1.30	10.42		2.58	8.20	30.40	58.82	0.79	12579 (29.26)	
PE-546-86 S-1.30	11.55		2.48	5.78	31.44	60.30	0.86	13008 (30.26)	
PE-547-86 S-1.35	7.98		2.68	9.25	28.14	59.93	0.90	12264 (28.53)	
PE-548-86 S-1.40	8.23		3.09	12.94	28.00	55.97	0.91	11472 (26.68)	
PE-549-86 S-1.50	3.83		3.72	24.14	25.79	46.35	0.75	9072 (21.10)	
PE-550-86 S-1.60	2.07		3.24	32.54	23.84	40.38	0.71	8008 (18.63)	
PE-551-86 S-1.70	55.92		1.58	83.49	11.35	3.58	0.55	877 (2.04)	

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
T1-U1-V1-W1, -24 mesh + 100 mesh										
PE-552-86	F-1.30	0.68		4.47	15.84	27.97	51.72	0.79	10881 (25.31)	
PE-553-86	S-1.30	4.43		3.11	4.16	30.48	62.25	0.75	13482 (31.36)	
PE-554-86	S-1.35	10.46		4.46	5.37	29.86	60.31	0.83	12728 (29.61)	
PE-555-86	S-1.40	12.50		4.49	10.95	28.62	55.94	0.90	11495 (26.74)	
PE-556-86	S-1.50	5.91		5.21	19.39	27.61	47.79	0.88	9662 (22.47)	
PE-557-86	S-1.60	3.03		5.47	29.54	24.46	40.53	0.83	7859 (18.28)	
PE-558-86	S-1.70	62.99		2.83	77.76	12.42	6.99	0.86	1416 (3.29)	
X1, +1/2"										
PE-559-86	F-1.30	24.89		1.46	45.12	15.74	37.68	0.57	7881 (18.33)	
PE-560-86	S-1.30	31.00		3.08	13.84	29.48	53.60	1.06	11935 (27.76)	
PE-561-86	S-1.35	15.72		2.37	24.93	24.20	48.50	1.15	10254 (23.85)	
PE-562-86	S-1.40	4.37		1.23	48.66	18.65	31.46	0.66	7207 (16.76)	
PE-563-86	S-1.50	1.75		1.70	34.81	20.12	43.37	0.72	8952 (20.82)	
PE-564-86	S-1.60	0.00		-	-	-	-	-	- (-)	
PE-565-86	S-1.70	22.27		0.38	92.72	4.03	2.87	0.16	531 (1.24)	
Y1, +1/2"										
PE-566-86	F-1.30	17.16		1.46	13.83	29.90	54.81	1.91	12616 (29.34)	
PE-567-86	S-1.30	7.54		2.40	6.80	32.57	58.23	1.01	13328 (31.00)	
PE-568-86	S-1.35	5.12		1.54	36.53	20.40	41.53	0.81	8826 (20.53)	
PE-569-86	S-1.40	2.25		1.45	37.51	19.65	41.39	1.41	8807 (20.49)	
PE-570-86	S-1.50	3.08		0.73	57.87	16.71	24.69	2.34	5864 (13.64)	
PE-571-86	S-1.60	1.27		0.87	64.62	14.05	20.46	1.66	4722 (10.98)	
PE-572-86	S-1.70	63.58		0.42	92.79	5.55	1.24	0.10	123 (0.29)	

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
Z1, +1/2"										
PE-573-86	F-1.30	10.83		2.00	12.09	25.71	60.20	0.85	12479 (29.03)	
PE-574-86	S-1.30	20.69		2.68	7.99	31.71	57.62	0.93	11801 (27.45)	
PE-575-86	S-1.35	9.38		2.34	22.55	26.53	48.58	0.80	10689 (24.86)	
PE-576-86	S-1.40	2.67		2.47	18.27	25.87	53.39	1.98	11127 (25.88)	
PE-577-86	S-1.50	2.02		1.67	39.28	19.18	39.87	0.82	8283 (19.27)	
PE-578-86	S-1.60	3.64		1.58	37.83	22.26	38.33	2.24	8606 (20.02)	
PE-579-86	S-1.70	50.77		1.05	89.09	9.76	0.10	0.07	161 (0.37)	
AA1, +1/2"										
PE-580-86	F-1.30	2.79		1.50	12.64	20.36	65.50	0.77	12711 (29.57)	
PE-581-86	S-1.30	1.64		1.85	7.55	29.99	60.61	0.90	13681 (31.82)	
PE-582-86	S-1.35	0.68		1.66	40.10	17.84	40.40	1.05	8788 (20.44)	
PE-583-86	S-1.40	0.24		1.34	29.90	23.85	44.91	2.57	10134 (23.57)	
PE-584-86	S-1.50	0.47		0.94	62.27	12.04	24.75	1.12	5051 (11.75)	
PE-585-86	S-1.60	0.25		0.60	82.85	7.80	8.75	0.27	1920 (4.47)	
PE-586-86	S-1.70	93.93		0.94	90.83	8.34	-	0.05	129 (0.30)	
BB1, +1/2"										
PE-587-86	F-1.30	8.47		2.01	5.72	32.57	59.70	0.97	13768 (32.02)	
PE-588-86	S-1.30	5.51		1.86	7.31	32.20	58.63	1.33	13558 (31.54)	
PE-589-86	S-1.35	4.50		1.19	26.09	13.49	59.23	0.71	10393 (24.17)	
PE-590-86	S-1.40	9.92		1.69	19.75	28.36	50.20	3.11	11471 (26.68)	
PE-591-86	S-1.50	13.28		1.77	30.94	26.54	40.75	3.22	9630 (22.40)	
PE-592-86	S-1.60	0.61		1.28	41.82	22.18	34.72	3.41	8011 (18.63)	
PE-593-86	S-1.70	57.71		0.88	80.59	15.37	3.16	0.84	1426 (3.32)	

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
X1-Y1-Z1-AA1-BB1, +1/2"										
*PE-594-86	F-1.30	7.06		1.70	10.69	25.84	61.77	0.97	12998 (30.23)	
*PE-595-86	S-1.30	5.22		1.98	7.46	31.13	59.43	1.06	13454 (31.29)	
*PE-596-86	S-1.35	3.21		1.54	33.68	17.35	47.43	0.89	9471 (22.03)	
*PE-597-86	S-1.40	3.91		1.55	26.71	24.98	46.76	2.56	10476 (24.37)	
*PE-598-86	S-1.50	5.17		1.25	49.53	17.95	31.27	1.93	6923 (16.10)	
*PE-599-86	S-1.60	0.73		0.93	63.83	14.36	20.88	1.62	4755 (11.06)	
*PE-600-86	S-1.70	74.70		0.86	87.54	10.43	1.17	0.32	565 (1.31)	
X1-Y1-Z1-AA1-BB1, -1/2" + 1/4"										
PE-601-86	F-1.30	16.46		2.72	9.16	28.27	59.85	0.92	12855 (29.90)	
PE-602-86	S-1.30	29.48		3.98	5.33	31.20	59.49	0.89	13056 (30.37)	
PE-603-86	S-1.35	7.09		3.33	10.47	28.91	57.29	1.06	12189 (28.35)	
PE-604-86	S-1.40	4.39		2.39	20.57	24.54	52.50	1.13	10721 (24.94)	
PE-605-86	S-1.50	1.59		1.95	41.12	18.93	38.00	1.24	7660 (17.82)	
PE-606-86	S-1.60	0.78		1.43	52.75	17.81	28.01	1.22	6240 (14.51)	
PE-607-86	S-1.70	40.21		1.52	88.19	9.00	1.29	0.32	160 (0.37)	
X1-Y1-Z1-AA1-BB1, -1/4" + 1/16"										
PE-608-86	F-1.30	27.99		2.84	6.18	30.43	60.55	0.82	12913 (30.04)	
PE-609-86	S-1.30	23.75		3.25	7.30	31.40	58.05	0.84	12698 (29.54)	
PE-610-86	S-1.35	8.08		3.51	14.48	27.98	54.03	0.88	10936 (25.44)	
PE-611-86	S-1.40	5.54		3.49	17.34	27.55	51.62	0.82	10640 (24.75)	
PE-612-86	S-1.50	2.19		2.95	33.58	23.64	39.83	0.77	8296 (19.30)	
PE-613-86	S-1.60	1.13		2.42	45.83	20.05	31.70	0.81	6638 (15.44)	
PE-614-86	S-1.70	31.32		1.00	89.36	9.38	0.26	0.19	125 (0.29)	

Table 6 (Cont'd) - Analyses of float-sink samples - composited from samples A1 to BB1 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
X1-Y1-Z1-AA1-BB1, -1/16" + 24 mesh										
PE-615-86	F-1.30	19.11		3.29	5.37	31.59	59.75	0.84	13000 (30.24)	
PE-616-86	S-1.30	17.50		3.09	6.47	30.91	59.53	0.83	12829 (29.84)	
PE-617-86	S-1.35	14.18		3.36	9.27	29.90	57.47	0.85	11987 (27.88)	
PE-618-86	S-1.40	8.16		3.79	12.29	28.87	55.05	0.77	11256 (26.18)	
PE-619-86	S-1.50	3.35		3.92	24.89	26.72	44.47	0.76	9088 (21.14)	
PE-620-86	S-1.60	2.34		3.69	30.48	24.55	41.28	0.73	8356 (19.44)	
PE-621-86	S-1.70	35.36		1.42	80.07	11.47	7.04	0.34	1628 (3.79)	
X1-Y1-Z1-AA1-BB1, -24 mesh + 100 mesh										
PE-622-86	F-1.30	0.81		4.52	15.97	27.05	52.46	0.85	10796 (25.11)	
PE-623-86	S-1.30	11.76		4.04	3.91	30.59	61.46	0.76	13252 (30.82)	
PE-624-86	S-1.35	18.09		4.78	5.44	30.10	59.68	0.86	12518 (29.12)	
PE-625-86	S-1.40	13.66		4.71	9.89	29.06	56.34	0.90	11647 (27.09)	
PE-626-86	S-1.50	8.61		6.15	17.96	27.63	48.26	0.86	9495 (22.09)	
PE-627-86	S-1.60	5.46		5.56	27.72	24.90	41.82	0.77	8183 (19.03)	
PE-628-86	S-1.70	41.61		2.24	76.56	11.25	9.95	0.34	1730 (4.02)	

Table 7 - Bulk density results for reserve bulk samples A2 to BB2

DATE OCT 7/86
S.O'L. & G.C.
EQUATION CALCULATED BY DATAPLOT ON VAX
Y=A*X^2+B*X+C A=-.00370442 B=-.837833 C=25.6886

SAMPLE I.D.	DISTANCE COAL TO TOP BUC. cm	DISTANCE OF COAL REMAINING cm	BUC.COV.& COAL WEIGHT g	BUC.& COVER. WEIGHT g	AS REC'D COAL WEIGHT g	CALCULATED VOLUME USING EQN. l	CALCULATED DENSITY g/ml
A2	6.40	28.80	33751.2	1388.3	32362.9	20.48	1.58
B2	6.00	29.20	26426.4	1388.3	25038.1	20.79	1.20
C2	5.40	29.80	26600.0	1388.3	25211.7	21.27	1.18
D2	7.60	27.60	24328.4	1388.3	22940.1	19.54	1.17
E2	4.50	30.70	27270.9	1388.3	25882.6	21.99	1.18
F2	11.60	23.60	17900.9	1388.3	16512.6	16.47	1.00
G2	8.70	26.50	21681.2	1388.3	20292.9	18.68	1.09
H2	9.60	25.60	23110.8	1388.3	21722.5	17.99	1.21
I2	7.00	28.20	26183.8	1388.3	24795.5	20.01	1.24
J2	8.80	26.40	20551.3	1388.3	19163.0	18.60	1.03
K2	9.50	25.70	22903.3	1388.3	21515.0	18.06	1.19
L2	4.10	31.10	24639.7	1388.3	23251.4	22.32	1.04
M2	6.90	28.30	27497.9	1388.3	26109.6	20.08	1.30
N2	7.30	27.90	26278.1	1388.3	24889.8	19.77	1.26
O2	10.40	24.80	21004.5	1388.3	19616.2	17.38	1.13
P2	8.10	27.10	20480.5	1388.3	19092.2	19.14	1.00
Q2	7.60	27.60	21562.5	1388.3	20174.2	19.54	1.03
R2	11.90	23.30	17753.3	1388.3	16365.0	16.24	1.01
S2	6.70	28.50	27307.4	1388.3	25919.1	20.24	1.28
T2	9.90	25.30	23447.6	1388.3	22059.3	17.76	1.24
U2	7.10	28.10	31505.8	1388.3	30117.5	19.93	1.51
V2	7.80	27.40	27735.5	1388.3	26347.2	19.38	1.36
W2	6.80	28.40	26541.0	1388.3	25152.7	20.16	1.25
X2	5.60	29.60	20451.6	1388.3	19063.3	21.11	0.90
Y2	7.80	27.40	21746.0	1388.3	20357.7	19.38	1.05
Z2	10.50	24.70			17319.8	17.30	1.00
AA2	8.80	26.40	27956.8	1388.3	26568.5	18.60	1.43
BB2	8.00	27.20	28580.3	1388.3	27192.0	19.22	1.41

TOTAL HEIGHT OF BUCKET = 35.20 cm AVG 1.19

BUCKET DATA

MEASURED VOLUME l	MEASURED HEIGHT cm	CALCULATE VOLUME USING EQN
8.00	23.60	7.98
10.00	20.60	10.00
12.00	17.70	12.02
14.00	14.90	14.03
16.00	12.20	16.02
18.00	9.60	17.99
20.00	7.05	19.97
22.00	4.55	21.95
24.00	2.00	24.03
25.00	0.80	25.02
25.50	0.00	25.69

Table 8 - Analyses of sieve samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
*PE-629-86	A2 (BULK)		5.31	1.53	73.73	13.78	10.96	0.36	2432 (5.66)	
*PE-630-86	-3/4" + 24mesh	88.37		1.42	74.93	13.26	10.39	0.31	2250 (5.23)	
PE-631-86	-24 mesh	11.63		2.40	64.58	17.71	15.31	0.73	3813 (8.87)	
*PE-632-86	B2 (BULK)		9.11	2.16	59.16	16.59	22.09	0.68	4562 (10.61)	
*PE-633-86	-3/4" + 24mesh	84.61		1.95	60.90	15.80	21.35	0.65	4342 (10.10)	
PE-634-86	-24 mesh	15.39		3.33	49.59	20.95	26.13	0.84	5770 (13.42)	
*PE-635-86	C2 (BULK)		11.45	1.90	60.14	14.86	23.10	0.57	4627 (10.76)	
*PE-636-86	-3/4" + 24mesh	86.01		1.67	62.27	14.08	21.98	0.55	4367 (10.16)	
PE-637-86	-24 mesh	13.99		3.33	47.08	19.65	29.94	0.68	6228 (14.49)	
*PE-638-86	D2 (BULK)		11.90	2.26	58.20	15.37	24.17	0.60	4958 (11.53)	
*PE-639-86	-3/4" + 24mesh	83.30		2.06	60.30	14.27	23.37	0.60	4689 (10.91)	
PE-640-86	-24 mesh	16.70		3.27	47.71	20.84	28.18	0.62	6298 (14.65)	
*PE-641-86	E2 (BULK)		10.53	1.93	60.88	13.95	23.24	0.50	4629 (10.77)	
*PE-642-86	-3/4" + 24mesh	86.24		1.74	63.14	13.33	21.79	0.47	4337 (10.09)	
PE-643-86	-24 mesh	13.76		3.13	46.71	17.84	32.32	0.66	6459 (15.02)	
*PE-644-86	F2 (BULK)		10.02	1.82	50.86	15.95	31.37	0.78	6398 (14.88)	
*PE-645-86	-3/4" + 24mesh	88.01		1.65	51.75	15.67	30.93	0.79	6341 (14.75)	
PE-646-86	-24 mesh	11.99		3.07	44.33	17.99	34.61	0.73	6817 (15.86)	

Table 8 (Cont'd) - Analyses of sieve samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
* PE-647-86	G2 (BULK)		10.31	2.17	49.92	17.08	30.83	0.77	6276 (14.60)	
* PE-648-86	-3/4" + 24mesh	84.50		1.96	50.94	16.56	30.54	0.71	6235 (14.50)	
PE-649-86	-24 mesh	15.50		3.30	44.37	19.93	32.40	1.11	6500 (15.12)	
* PE-650-86	H2 (BULK)		6.00	1.91	60.14	15.82	22.13	0.46	4710 (10.96)	
* PE-651-86	-3/4" + 24mesh	87.13		1.76	61.55	15.49	21.20	0.42	4532 (10.54)	
PE-652-86	-24 mesh	12.87		2.95	50.59	18.04	28.42	0.73	5917 (13.76)	
* PE-653-86	I2 (BULK)		7.52	2.05	58.83	16.24	22.88	0.47	4776 (11.11)	
* PE-654-86	-3/4" + 24mesh	87.51		1.95	59.13	16.22	22.70	0.46	4757 (11.06)	
PE-655-86	-24 mesh	12.49		2.77	56.74	16.37	24.12	0.55	4913 (11.43)	
* PE-656-86	J2 (BULK)		9.49	2.36	48.14	18.16	31.34	0.66	6393 (14.87)	
* PE-657-86	-3/4" + 24mesh	84.89		2.19	47.80	18.12	31.89	0.65	6484 (15.08)	
PE-658-86	-24 mesh	15.11		3.31	50.08	18.41	28.20	0.69	5883 (13.68)	
* PE-659-86	K2 (BULK)		6.85	2.18	53.97	17.88	25.97	0.53	5537 (12.88)	
* PE-660-86	-3/4" + 24mesh	88.48		2.02	55.33	17.64	25.01	0.48	5394 (12.55)	
PE-661-86	-24 mesh	11.52		3.43	43.52	19.72	33.33	0.91	6636 (15.44)	
* PE-662-86	L2 (BULK)		12.56	2.07	54.50	14.13	29.30	0.60	5461 (12.70)	
* PE-663-86	-3/4" + 24mesh	85.92		1.86	55.85	13.56	28.73	0.58	5327 (12.39)	
PE-664-86	-24 mesh	14.08		3.34	46.29	17.59	32.78	0.72	6276 (14.60)	

Table 8 (Cont'd) - Analyses of sieve samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
* PE-665-86	M2 (BULK)		6.52	1.66	69.75	13.47	15.12	0.41	3142 (7.31)	
* PE-666-86	-3/4" + 24mesh	90.39		1.53	71.74	12.83	13.90	0.39	2853 (6.64)	
PE-667-86	-24 mesh	9.61		2.91	51.02	19.54	26.53	0.55	5857 (13.62)	
* PE-668-86	M2 (BULK)		12.60	1.98	66.58	12.39	19.05	0.41	3788 (8.81)	
* PE-669-86	-3/4" + 24mesh	72.88		1.96	63.46	13.12	21.46	0.47	4216 (9.81)	
PE-670-86	-24 mesh	27.12		2.05	74.97	10.44	12.54	0.25	2638 (6.14)	
* PE-671-86	Q2 (BULK)		13.02	2.22	55.58	14.50	27.70	0.54	5401 (12.56)	
* PE-672-86	-3/4" + 24mesh	77.03		1.99	54.24	14.46	29.31	0.56	5655 (13.15)	
PE-673-86	-24 mesh	22.97		2.99	60.09	14.64	22.28	0.46	4550 (10.58)	
* PE-674-86	P2 (BULK)		15.19	1.81	57.92	12.05	28.22	0.38	5271 (12.26)	
* PE-675-86	-3/4" + 24mesh	77.57		1.50	59.10	11.02	28.38	0.36	5184 (12.06)	
PE-676-86	-24 mesh	22.43		2.86	53.84	15.61	27.69	0.45	5571 (12.96)	
* PE-677-86	Q2 (BULK)		14.69	1.76	49.84	14.86	33.54	0.50	6626 (15.41)	
* PE-678-86	-3/4" + 24mesh	74.11		1.49	52.17	13.71	32.63	0.50	6300 (14.65)	
PE-679-86	-24 mesh	25.89		2.53	43.16	18.16	36.15	0.49	7559 (17.58)	
* PE-680-86	R2 (BULK)		12.21	1.82	45.30	17.24	35.64	0.48	7072 (16.45)	
* PE-681-86	-3/4" + 24mesh	81.69		1.52	47.56	16.34	34.58	0.45	6732 (15.66)	
PE-682-86	-24 mesh	18.31		3.16	35.21	21.25	40.38	0.64	8590 (19.98)	

Table 8 (Cont'd) - Analyses of sieve samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
* PE-683-86	S2 (BULK)		9.66	2.04	64.20	14.37	19.39	0.88	4021 (9.35)	
* PE-684-86	-3/4" + 24mesh	86.84		1.85	65.36	14.04	18.75	0.93	3864 (8.99)	
PE-685-86	-24 mesh	13.16		3.32	56.51	16.57	23.60	0.52	5055 (11.76)	
* PE-686-86	T2 (BULK)		8.83	2.36	49.27	20.28	28.09	1.37	6193 (14.40)	
* PE-687-86	-3/4" + 24mesh	85.94		2.23	48.84	20.16	28.77	1.26	6379 (14.84)	
PE-688-86	-24 mesh	14.06		3.13	51.92	21.01	23.94	2.01	5059 (11.77)	
* PE-689-86	U2 (BULK)		6.04	1.65	71.51	12.34	14.50	0.70	3097 (7.20)	
* PE-690-86	-3/4" + 24mesh	88.37		1.44	73.99	11.58	12.99	0.74	2771 (6.45)	
PE-691-86	-24 mesh	11.63		3.25	52.67	18.15	25.93	0.42	5571 (12.96)	
* PE-692-86	V2 (BULK)		14.91	2.33	67.55	14.52	15.60	0.34	3166 (7.36)	
* PE-693-86	-3/4" + 24mesh	74.45		2.24	64.04	15.09	18.63	0.33	3671 (8.54)	
PE-694-86	-24 mesh	25.55		2.60	77.77	12.84	6.79	0.36	1694 (3.94)	
* PE-695-86	W2 (BULK)		10.83	2.38	56.15	18.46	23.01	0.69	4900 (11.40)	
* PE-696-86	-3/4" + 24mesh	85.91		2.10	57.81	18.18	21.91	0.71	4663 (10.85)	
PE-697-86	-24 mesh	14.09		4.09	46.06	20.15	29.70	0.54	6348 (14.77)	
* PE-698-86	X2 (BULK)		13.66	4.47	15.57	29.71	50.25	0.76	10843 (25.22)	
* PE-699-86	-3/4" + 24mesh	84.24		4.34	13.57	30.80	51.29	0.78	11194 (26.04)	
PE-700-86	-24 mesh	15.76		5.15	26.29	23.89	44.67	0.63	8969 (20.86)	

Table 8 (Cont'd) - Analyses of sieve samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Sieve analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
* PE-701-86	Y2 (BULK)		13.56	3.31	34.23	24.03	38.43	0.69	8379 (19.49)	
* PE-702-86	-3/4"+ 24mesh	81.67		3.24	31.59	25.15	40.02	0.73	8770 (20.40)	
PE-703-86	-24 mesh	18.33		3.64	45.98	19.04	31.34	0.50	6638 (15.44)	
* PE-704-86	Z2 (BULK)		12.99	4.21	31.34	24.78	39.67	0.75	8299 (19.30)	
* PE-705-86	-3/4"+ 24mesh	78.20		3.85	28.97	25.44	41.74	0.72	8856 (20.60)	
PE-706-86	-24 mesh	21.80		5.52	39.84	22.43	32.21	0.84	6300 (14.65)	
* PE-707-86	AA2 (BULK)		14.18	1.76	65.90	15.02	17.32	0.53	3892 (9.05)	
* PE-708-86	-3/4"+ 24mesh	78.73		1.29	74.12	13.22	11.37	0.51	2671 (6.21)	
PE-709-86	-24 mesh	21.27		3.49	35.47	21.70	39.34	0.59	8413 (19.57)	
* PE-710-86	BB2 (BULK)		9.01	1.84	65.53	15.84	16.79	0.61	3912 (9.10)	
* PE-711-86	-3/4"+ 24mesh	88.89		1.74	66.56	15.68	16.02	0.60	3777 (8.79)	
PE-712-86	-24 mesh	11.11		2.65	57.25	17.13	22.97	0.65	4993 (11.61)	

Table 9 - Analyses of float-sink samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
A2 -3/4" + 24mesh										
PE-713-86	F-1.30	4.14		3.34	8.59	28.21	60.86	0.77	13245 (30.81)	
PE-714-86	S-1.30	4.63		2.42	5.55	30.67	61.36	1.09	13491 (31.38)	
PE-715-86	S-1.35	1.83		2.39	11.73	28.24	57.64	1.41	12526 (29.14)	
PE-716-86	S-1.40	2.51		1.95	18.69	26.42	52.94	2.45	11388 (26.49)	
PE-717-86	S-1.50	2.22		1.61	29.52	24.31	44.56	2.70	9747 (22.67)	
PE-718-86	S-1.60	1.92		1.47	40.15	21.47	36.91	2.29	8111 (18.87)	
PE-719-86	S-1.70	82.75		1.27	87.26	10.32	1.15	0.05	230 (0.53)	
B2 -3/4" + 24mesh										
PE-720-86	F-1.30	5.90		2.27	18.32	22.52	56.89	0.72	11570 (26.91)	
PE-721-86	S-1.30	14.02		3.16	6.41	30.73	59.70	0.86	12999 (30.24)	
PE-722-86	S-1.35	5.49		2.92	11.61	28.52	56.95	1.18	12216 (28.41)	
PE-723-86	S-1.40	5.61		2.36	21.61	25.01	51.02	1.56	10721 (24.94)	
PE-724-86	S-1.50	3.20		1.87	38.22	19.97	39.94	1.54	8376 (19.48)	
PE-725-86	S-1.60	2.74		1.63	49.16	17.59	31.62	1.51	6587 (15.32)	
PE-726-86	S-1.70	63.04		1.55	86.45	9.64	2.36	0.39	184 (0.43)	
C2 -3/4" + 24mesh										
PE-727-86	F-1.30	11.28		2.14	19.75	17.32	60.79	0.73	11195 (26.04)	
PE-728-86	S-1.30	10.78		2.76	7.61	30.97	58.66	0.83	12994 (30.22)	
PE-729-86	S-1.35	4.80		2.38	15.05	27.30	55.27	1.02	11938 (27.77)	
PE-730-86	S-1.40	5.50		2.13	27.88	21.30	48.69	1.07	10016 (23.30)	
PE-731-86	S-1.50	3.54		1.72	43.12	16.10	39.06	1.06	7725 (17.97)	
PE-732-86	S-1.60	3.17		1.20	59.09	12.58	27.13	0.96	5478 (12.74)	
PE-733-86	S-1.70	60.93		1.32	87.92	8.76	2.00	0.33	218 (0.51)	

Table 9 (Cont'd) - Analyses of float-sink samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
D2 -3/4" + 24mesh										
PE-734-86	F-1.30	4.99		1.60	19.15	7.05	72.20	0.76	10755 (25.02)	
PE-735-86	S-1.30	21.42		3.73	4.69	29.84	61.74	0.85	13190 (30.68)	
PE-736-86	S-1.35	4.54		3.37	11.82	26.21	58.60	0.95	11979 (27.86)	
PE-737-86	S-1.40	3.95		3.06	22.32	22.02	52.60	1.22	10405 (24.20)	
PE-738-86	S-1.50	2.01		2.61	38.17	15.85	43.37	1.05	7925 (18.43)	
PE-739-86	S-1.60	1.83		1.72	52.28	13.61	32.39	1.50	6220 (14.47)	
PE-740-86	S-1.70	61.26		1.34	90.10	8.00	0.56	0.40	162 (0.38)	
E2 -3/4" + 24mesh										
PE-741-86	F-1.30	8.42		1.28	31.74	9.72	57.26	0.64	9229 (21.47)	
PE-742-86	S-1.30	18.15		3.02	8.54	29.00	59.44	0.88	12848 (29.88)	
PE-743-86	S-1.35	4.67		2.55	19.12	24.72	53.61	1.07	11163 (25.97)	
PE-744-86	S-1.40	4.24		2.07	37.47	18.53	41.93	1.13	8547 (19.88)	
PE-745-86	S-1.50	2.83		1.58	53.17	14.24	31.01	0.97	6170 (14.35)	
PE-746-86	S-1.60	2.74		0.97	71.14	10.08	17.81	0.73	3102 (7.22)	
PE-747-86	S-1.70	58.95		1.37	89.88	7.86	0.89	0.18	143 (0.33)	
F2 -3/4" + 24mesh										
PE-748-86	F-1.30	13.11		1.85	18.24	14.87	65.04	0.65	11388 (26.49)	
PE-749-86	S-1.30	21.94		2.93	5.79	31.23	60.05	0.94	13228 (30.77)	
PE-750-86	S-1.35	4.85		2.73	16.03	24.97	56.27	1.04	11596 (26.97)	
PE-751-86	S-1.40	5.99		2.51	24.28	22.97	50.24	1.56	10286 (23.93)	
PE-752-86	S-1.50	4.08		1.99	39.43	18.84	39.74	2.18	8113 (18.87)	
PE-753-86	S-1.60	3.11		1.25	60.53	12.08	26.14	1.30	5157 (12.00)	
PE-754-86	S-1.70	46.92		0.78	90.29	6.68	2.25	0.49	589 (1.37)	

Table 9 (Cont'd) - Analyses of float-sink samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
G2 -3/4" + 24mesh										
PE-755-86	F-1.30	10.88		1.91	10.49	15.69	71.91	0.81	12613 (29.34)	
PE-756-86	S-1.30	26.10		3.07	5.03	29.58	62.32	0.92	13379 (31.12)	
PE-757-86	S-1.35	3.99		2.32	13.37	25.61	58.70	1.26	12207 (28.39)	
PE-758-86	S-1.40	3.18		2.15	21.46	22.76	53.63	1.50	10902 (25.36)	
PE-759-86	S-1.50	1.86		1.87	33.50	18.52	46.11	1.73	9004 (20.94)	
PE-760-86	S-1.60	1.76		1.54	50.72	14.19	33.55	1.33	6438 (14.97)	
PE-761-86	S-1.70	52.23		1.39	87.60	9.17	1.84	0.43	491 (1.14)	
H2 -3/4" + 24mesh										
PE-762-86	F-1.30	4.56		1.54	12.29	18.48	67.69	0.77	12564 (29.22)	
PE-763-86	S-1.30	20.42		3.03	3.91	30.59	62.47	0.79	13610 (31.66)	
PE-764-86	S-1.35	4.63		2.56	11.72	28.30	57.42	1.10	12409 (28.86)	
PE-765-86	S-1.40	2.57		2.37	19.68	25.00	52.95	1.53	11117 (25.86)	
PE-766-86	S-1.50	1.44		1.88	38.99	19.56	39.57	1.15	8337 (19.39)	
PE-767-86	S-1.60	1.19		1.71	48.75	16.98	32.56	1.31	6549 (15.23)	
PE-768-86	S-1.70	65.19		1.30	88.98	9.15	0.57	0.16	186 (0.43)	
I2 -3/4" + 24mesh										
PE-769-86	F-1.30	7.63		2.03	8.35	25.49	64.13	0.78	13142 (30.57)	
PE-770-86	S-1.30	18.79		2.67	4.13	30.69	62.51	0.74	13728 (31.93)	
PE-771-86	S-1.35	4.30		2.29	11.45	27.40	58.86	1.04	12568 (29.23)	
PE-772-86	S-1.40	2.87		2.07	21.64	24.32	51.97	1.80	10935 (25.43)	
PE-773-86	S-1.50	1.47		1.91	35.86	19.44	42.79	1.31	8790 (20.45)	
PE-774-86	S-1.60	1.08		1.71	52.05	14.84	31.40	1.01	6401 (14.89)	
PE-775-86	S-1.70	63.86		1.70	86.93	9.69	1.68	0.21	191 (0.44)	

Table 9 (Cont'd) - Analyses of float-sink samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
J2 -3/4" + 24mesh										
PE-776-86	F-1.30	11.08		1.99	14.79	17.92	65.30	0.77	11951 (27.80)	
PE-777-86	S-1.30	26.45		3.47	4.67	30.19	61.67	0.88	13268 (30.86)	
PE-778-86	S-1.35	6.50		3.00	13.19	26.21	57.60	1.15	12007 (27.93)	
PE-779-86	S-1.40	4.19		2.49	24.05	21.38	52.08	1.06	10322 (24.01)	
PE-780-86	S-1.50	2.72		1.97	38.60	17.36	42.07	1.10	8220 (19.12)	
PE-781-86	S-1.60	2.49		1.56	57.29	13.91	27.24	0.79	5298 (12.32)	
PE-782-86	S-1.70	46.57		1.41	87.14	10.16	1.29	0.34	175 (0.41)	
K2 -3/4" + 24mesh										
PE-783-86	F-1.30	9.50		2.28	10.80	25.22	61.70	0.69	12809 (29.79)	
PE-784-86	S-1.30	22.00		3.04	4.69	30.97	61.30	0.78	13448 (31.28)	
PE-785-86	S-1.35	4.58		2.77	11.81	28.32	57.10	1.07	12191 (28.36)	
PE-786-86	S-1.40	3.17		2.28	23.15	23.74	50.83	1.24	10514 (24.46)	
PE-787-86	S-1.50	1.65		2.12	37.57	19.18	41.13	1.28	8306 (19.32)	
PE-788-86	S-1.60	1.54		1.81	52.78	15.87	29.54	1.23	5920 (13.77)	
PE-789-86	S-1.70	57.56		1.52	87.84	10.12	0.52	0.20	171 (0.40)	
L2 -3/4" + 24mesh										
PE-790-86	F-1.30	13.01		1.64	19.34	10.26	68.76	0.72	10987 (25.56)	
PE-791-86	S-1.30	16.00		3.19	6.35	29.62	60.84	0.82	13039 (30.33)	
PE-792-86	S-1.35	7.74		4.02	13.71	26.72	55.55	0.94	11398 (26.51)	
PE-793-86	S-1.40	5.01		3.58	25.77	21.22	49.43	1.16	9780 (22.75)	
PE-794-86	S-1.50	3.68		1.92	49.29	12.58	36.21	1.14	6726 (15.64)	
PE-795-86	S-1.60	2.65		1.39	62.03	8.86	27.72	0.87	4699 (10.93)	
PE-796-86	S-1.70	51.91		1.04	89.60	7.04	2.32	0.31	129 (0.30)	

Table 9 (Cont'd) - Analyses of float-sink samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
N2 -3/4" + 24mesh										
PE-797-86	F-1.30	4.72		1.74	22.71	16.54	59.01	0.60	10936 (25.44)	
PE-798-86	S-1.30	10.47		2.92	5.81	30.05	61.22	0.93	13356 (31.07)	
PE-799-86	S-1.35	3.19		2.89	15.56	25.52	56.03	0.94	11562 (26.89)	
PE-800-86	S-1.40	2.51		2.22	30.92	20.81	46.05	1.32	9440 (21.96)	
PE-801-86	S-1.50	2.00		1.58	46.40	17.80	34.22	1.16	7269 (16.91)	
PE-802-86	S-1.60	1.47		1.19	62.28	11.60	24.93	1.04	4874 (11.34)	
PE-803-86	S-1.70	75.64		1.25	88.50	9.31	0.94	0.22	153 (0.36)	
N2 -3/4" + 24mesh										
PE-804-86	F-1.30	5.11		2.06	30.78	10.16	57.00	0.64	8850 (20.59)	
PE-805-86	S-1.30	13.87		3.75	5.66	30.38	60.21	0.71	12936 (30.09)	
PE-806-86	S-1.35	7.61		3.97	12.63	27.50	55.90	1.07	11691 (27.19)	
PE-807-86	S-1.40	5.34		3.21	24.69	22.97	49.13	1.06	9976 (23.20)	
PE-808-86	S-1.50	3.64		2.77	38.38	18.65	40.20	1.19	7932 (18.45)	
PE-809-86	S-1.60	2.58		2.31	52.72	14.60	30.37	0.92	5935 (13.80)	
PE-810-86	S-1.70	61.85		1.14	90.65	6.49	1.72	0.21	171 (0.40)	
O2 -3/4" + 24mesh										
PE-811-86	F-1.30	7.95		1.66	29.59	7.78	60.97	0.66	9405 (21.88)	
PE-812-86	S-1.30	19.73		3.66	6.44	30.90	59.00	0.90	12847 (29.88)	
PE-813-86	S-1.35	10.90		3.32	15.67	25.90	55.11	1.05	11314 (26.32)	
PE-814-86	S-1.40	6.57		2.76	29.29	19.72	48.23	1.06	9353 (21.76)	
PE-815-86	S-1.50	4.45		1.88	49.13	13.58	35.41	0.78	6513 (15.15)	
PE-816-86	S-1.60	3.88		1.49	62.05	10.80	25.66	0.58	4248 (9.88)	
PE-817-86	S-1.70	46.52		0.97	91.13	5.60	2.30	0.18	151 (0.35)	

Table 9 (Cont'd) - Analyses of float-sink samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
P2 -3/4" + 24mesh										
PE-818-86	F-1.30	15.94		1.50	33.41	8.77	56.32	0.51	8855 (20.60)	
PE-819-86	S-1.30	19.29		3.38	8.28	27.82	60.52	0.70	12549 (29.19)	
PE-820-86	S-1.35	6.58		3.09	28.58	20.20	48.13	0.65	10342 (24.06)	
PE-821-86	S-1.40	5.12		2.40	43.36	14.52	39.72	0.58	7055 (16.41)	
PE-822-86	S-1.50	4.95		1.25	66.22	8.06	24.47	0.38	3526 (8.20)	
PE-823-86	S-1.60	4.54		0.73	79.16	5.46	14.65	0.30	1765 (4.11)	
PE-824-86	S-1.70	43.58		0.44	94.54	3.53	1.49	0.10	127 (0.30)	
Q2 -3/4" + 24mesh										
PE-825-86	F-1.30	16.00		1.70	20.74	12.53	65.03	0.60	11059 (25.72)	
PE-826-86	S-1.30	22.92		2.39	5.74	29.15	62.72	0.69	13566 (31.55)	
PE-827-86	S-1.35	5.91		2.68	13.67	24.87	58.78	0.86	11997 (27.90)	
PE-828-86	S-1.40	4.32		1.87	39.15	15.11	43.87	0.76	8159 (18.98)	
PE-829-86	S-1.50	3.71		1.28	57.59	10.56	30.57	0.75	5437 (12.65)	
PE-830-86	S-1.60	2.76		1.15	64.18	9.31	25.36	0.51	4138 (9.62)	
PE-831-86	S-1.70	44.38		0.80	92.67	5.07	1.46	0.27	98 (0.23)	
R2 -3/4" + 24mesh										
PE-832-86	F-1.30	15.39		1.77	22.39	14.27	61.57	0.62	10859 (25.26)	
PE-833-86	S-1.30	26.80		2.61	5.48	28.83	63.08	0.75	13422 (31.22)	
PE-834-86	S-1.35	6.25		2.42	20.57	22.81	54.20	0.88	10939 (25.44)	
PE-835-86	S-1.40	4.21		1.74	41.16	14.54	42.56	0.69	8174 (19.01)	
PE-836-86	S-1.50	3.95		1.37	52.24	12.19	34.20	0.69	6258 (14.56)	
PE-837-86	S-1.60	3.59		0.95	68.52	8.46	22.07	0.50	3690 (8.58)	
PE-838-86	S-1.70	39.81		0.58	88.18	9.04	2.20	0.05	140 (0.33)	

Table 9 (Cont'd) - Analyses of float-sink samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
S2 -3/4" + 24mesh										
PE-839-86	F-1.30	4.72		1.74	31.27	10.42	56.57	0.65	9342 (21.73)	
PE-840-86	S-1.30	14.54		3.56	5.47	30.81	60.16	0.91	13024 (30.29)	
PE-841-86	S-1.35	6.76		3.23	12.92	28.05	55.80	1.08	11879 (27.63)	
PE-842-86	S-1.40	3.44		2.78	26.60	21.68	48.94	1.05	9800 (22.79)	
PE-843-86	S-1.50	2.40		1.94	43.52	15.87	38.67	0.92	7389 (17.19)	
PE-844-86	S-1.60	2.04		1.50	57.56	13.01	27.93	1.80	5383 (12.52)	
PE-845-86	S-1.70	66.10		1.30	89.38	8.74	0.58	0.90	155 (0.36)	
T2 -3/4" + 24mesh										
PE-846-86	F-1.30	2.47		2.61	9.04	28.46	59.89	1.09	12884 (29.97)	
PE-847-86	S-1.30	18.52		3.00	5.12	32.57	59.31	1.04	13371 (31.10)	
PE-848-86	S-1.35	10.52		2.57	11.10	30.23	56.10	1.40	12498 (29.07)	
PE-849-86	S-1.40	7.98		2.29	20.16	26.86	50.69	1.64	11075 (25.75)	
PE-850-86	S-1.50	5.36		2.14	29.40	23.38	45.08	1.82	9527 (22.16)	
PE-851-86	S-1.60	3.23		2.06	38.51	21.40	38.03	2.57	8019 (18.65)	
PE-852-86	S-1.70	51.92		1.87	81.04	11.86	5.23	1.13	1186 (2.76)	
U2 -3/4" + 24mesh										
PE-853-86	F-1.30	1.88		1.68	35.84	9.54	52.94	0.48	8483 (19.73)	
PE-854-86	S-1.30	9.88		3.25	5.19	28.76	62.80	0.85	13216 (30.74)	
PE-855-86	S-1.35	6.25		3.70	8.69	27.69	59.92	0.77	12361 (28.75)	
PE-856-86	S-1.40	2.27		3.02	20.13	22.66	54.19	0.83	10558 (24.56)	
PE-857-86	S-1.50	1.34		2.40	35.21	17.20	45.19	0.76	8388 (19.51)	
PE-858-86	S-1.60	1.04		1.72	52.92	14.38	30.98	0.72	5938 (13.81)	
PE-859-86	S-1.70	77.34		0.96	91.52	7.67	-	0.73	154 (0.36)	

Table 9 (Cont'd) - Analyses of float-sink samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
V2 -3/4" + 24mesh										
PE-860-86	F-1.30	4.19		2.94	19.11	15.60	62.35	0.71	10531 (24.50)	
PE-861-86	S-1.30	6.86		3.09	7.31	29.67	59.93	0.90	12816 (29.81)	
PE-862-86	S-1.35	7.79		3.56	9.68	27.09	59.67	0.94	12033 (27.99)	
PE-863-86	S-1.40	6.39		4.57	15.44	24.14	55.85	0.89	10591 (24.63)	
PE-864-86	S-1.50	4.77		4.33	27.40	22.02	46.25	0.91	8717 (20.28)	
PE-865-86	S-1.60	2.87		3.09	42.82	19.91	34.18	0.82	6851 (15.94)	
PE-866-86	S-1.70	67.13		1.55	87.09	10.61	0.75	0.06	184 (0.43)	
W2 -3/4" + 24mesh										
PE-867-86	F-1.30	4.06		1.85	33.19	11.04	53.92	0.50	8813 (20.50)	
PE-868-86	S-1.30	18.14		3.72	5.05	31.53	59.70	0.88	13031 (30.31)	
PE-869-86	S-1.35	8.55		3.55	10.90	29.01	56.54	0.89	12024 (27.97)	
PE-870-86	S-1.40	3.98		2.53	27.76	23.51	46.20	1.03	9776 (22.74)	
PE-871-86	S-1.50	3.13		2.14	39.47	20.67	37.72	1.15	7983 (18.57)	
PE-872-86	S-1.60	2.36		1.63	52.20	17.76	28.41	0.90	6043 (14.06)	
PE-873-86	S-1.70	59.78		1.40	85.38	12.60	0.62	0.60	221 (0.51)	
X2 -3/4" + 24mesh										
PE-874-86	F-1.30	1.88		1.42	47.11	11.43	40.04	0.50	6329 (14.72)	
PE-875-86	S-1.30	52.94		4.71	3.17	34.16	57.96	0.90	12819 (29.82)	
PE-876-86	S-1.35	26.16		4.77	6.44	32.71	56.08	0.82	12117 (28.18)	
PE-877-86	S-1.40	6.29		4.45	16.77	29.06	49.72	0.65	10500 (24.42)	
PE-878-86	S-1.50	3.19		3.54	33.63	24.56	38.27	0.55	8232 (19.15)	
PE-879-86	S-1.60	1.64		2.71	49.60	19.37	28.32	0.50	5552 (12.91)	
PE-880-86	S-1.70	7.90		1.66	80.80	12.89	4.65	0.15	1328 (3.09)	

Table 9 (Cont'd) - Analyses of float-sink samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
Y2 -3/4" + 24mesh										
PE-881-86	F-1.30	3.80		1.81	29.70	14.45	54.04	0.61	9437 (21.95)	
PE-882-86	S-1.30	41.84		4.24	3.65	34.39	57.72	0.90	13057 (30.37)	
PE-883-86	S-1.35	16.67		4.13	9.28	31.06	55.53	0.96	12064 (28.06)	
PE-884-86	S-1.40	5.67		3.91	19.03	27.97	49.09	0.92	10379 (24.14)	
PE-885-86	S-1.50	2.46		3.27	33.89	21.67	41.17	0.80	8208 (19.09)	
PE-886-86	S-1.60	2.01		2.42	52.78	16.80	28.00	0.62	5447 (12.67)	
PE-887-86	S-1.70	27.55		1.30	88.60	9.36	0.74	0.30	134 (0.31)	
Z2 -3/4" + 24mesh										
PE-888-86	F-1.30	1.81		3.43	13.45	23.47	59.65	0.81	11574 (26.92)	
PE-889-86	S-1.30	33.21		4.34	3.69	32.92	59.05	0.87	12989 (30.21)	
PE-890-86	S-1.35	21.96		4.74	6.67	30.49	58.10	0.88	12189 (28.35)	
PE-891-86	S-1.40	10.52		5.79	11.58	28.92	53.71	0.94	10681 (24.84)	
PE-892-86	S-1.50	3.90		5.81	20.34	27.20	46.65	0.94	9032 (21.01)	
PE-893-86	S-1.60	1.72		3.62	35.83	23.65	36.90	1.16	7586 (17.65)	
PE-894-86	S-1.70	26.88		1.52	87.08	10.69	0.71	0.26	184 (0.43)	
AA2 -3/4" + 24mesh										
PE-895-86	F-1.30	4.18		1.75	18.60	18.87	60.78	0.71	11591 (26.96)	
PE-896-86	S-1.30	9.49		2.58	5.57	33.14	58.71	0.83	13496 (31.39)	
PE-897-86	S-1.35	2.09		2.31	16.54	27.11	54.04	1.09	11808 (27.47)	
PE-898-86	S-1.40	2.21		2.10	29.37	24.82	43.71	1.48	9895 (23.02)	
PE-899-86	S-1.50	2.69		2.33	35.69	23.34	38.64	1.10	8980 (20.89)	
PE-900-86	S-1.60	1.25		1.35	52.12	19.07	27.46	1.55	6435 (14.97)	
PE-901-86	S-1.70	78.09		1.02	89.90	9.36	-	0.38	151 (0.35)	

Table 9 (Cont'd) - Analyses of float-sink samples - A2 to BB2 - Springhill Refuse Samples

Laboratory No.		Float-Sink analysis wt%	Air Dry Moisture %	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	Sp.Gr. g/ml
BB2 -3/4" + 24mesh										
PE-902-86	F-1.30	3.46		1.92	11.54	24.96	61.58	0.85	12645 (29.41)	
PE-903-86	S-1.30	17.18		2.91	4.29	33.14	59.66	0.95	13609 (31.65)	
PE-904-86	S-1.35	4.36		2.43	10.99	29.94	56.64	1.20	12637 (29.39)	
PE-905-86	S-1.40	1.86		1.87	23.31	25.31	49.51	1.60	10823 (25.17)	
PE-906-86	S-1.50	1.03		1.63	36.87	20.84	40.66	1.54	8739 (20.33)	
PE-907-86	S-1.60	0.88		1.57	50.00	16.91	31.52	1.49	6566 (15.27)	
PE-908-86	S-1.70	71.23		1.41	89.42	9.81	-	0.42	143 (0.33)	

Table 10 - Analyses of channel samples - Sydney Swamp Surface Mine, Glace Bay District

Laboratory No.	DDNS No.	Depth Interval (m)	Moisture %	Ash %	Volatile matter %	Fixed carbon %	Sulphur %	Heating Value Btu/lb (MJ/kg)	FSI
Airport Swamp Surface Mine - O'Dell Seam									
PE-1-87	PG-1-1	0.00 - 0.17	1.74	48.02	21.92	28.32	6.16	6778 (15.77)	1.0
PE-2-87	PG-1-2	0.17 - 0.41	1.35	21.45	31.70	45.50	10.71	11271 (26.22)	7.0
PE-3-87	PG-1-3	0.41 - 0.55	1.18	25.13	31.41	42.28	7.25	10892 (25.33)	3.5
PE-4-87	PG-1-4	0.55 - 0.69	1.80	11.74	36.49	49.97	7.87	12892 (29.99)	7.0
PE-5-87	PG-1-5	0.69 - 0.97	1.82	21.12	32.93	44.13	10.06	11392 (26.50)	5.0
PE-6-87	PG-1-6	0.97 - 1.02	1.39	64.10	16.29	17.92	2.44	3965 (9.22)	0.5
PE-7-87	PG-1-7	1.02 - 1.34	1.96	14.84	34.82	48.38	6.48	12445 (28.95)	7.0
PE-8-87	PG-1-8	1.34 - 1.64	2.65	56.99	18.67	21.69	3.60	5304 (12.34)	0.0
PE-9-87	PG-1-9	1.64 - 2.02	2.13	55.51	19.45	22.91	7.66	5558 (12.93)	0.5
PE-10-87	PG-1-10	2.02 - 2.34	2.21	9.13	33.65	55.01	3.79	13206 (30.93)	7.0

Table 11 - Number of samples and number of analyses, 1986 - 1987

Sample Description	No. of Samples	ADM	Prox	Sul	H.V.	T.A.	C+H+N+O	FSI	GR	Ash	FPA	SF	SpGr	B.D.
Springhill Refuse Samples														
Bulk Samples, A1-BB1	28	28	28	28	28									
Sieve Samples, A1-BB1	168		168	168	168									
Float-Sink Samples, A1-BB1	392		392	392	392								36	
Bulk Samples (Reserve), A2-BB2	28	28	28	28	28									28
Sieve Samples, A2-BB2	56		56	56	56									
Float-Sink Samples, A2-BB2	196		196	196	196									
Channel Samples														
Airport Swamp Surface Mine	10		10	10	10			10						
Total (Data Items)	878	56	878x4	878	878			10					36	28
		56	3512	878	878			10					36	28